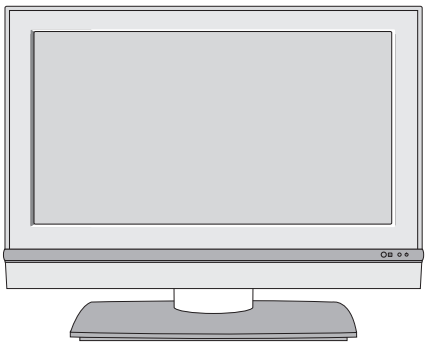
website:http://biz.LGservice.com
e-mail:http://www.LGEservice.com/techsup.html

LCD TV
SERVICE MANUAL

CHASSIS : LA63E
FACTORY NAME : 32LC2D(U)-UE/37LC2D-UE/42LC2D-UE

MODEL : 32LC2D(U)/37LC2D/42LC2D

CAUTION
BEFORE SERVICING THE CHASSIS,
READ THE SAFETY PRECAUTIONS IN THIS MANUAL.



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SAFETY PRECAUTIONS

IMPORTANT SAFETY NOTICE

Many electrical and mechanical parts in this chassis have special safety-related characteristics. These parts are identified by ⚠ in the Schematic Diagram and Replacement Parts List.
It is essential that these special safety parts should be replaced with the same components as recommended in this manual to prevent Shock, Fire, or other Hazards.
Do not modify the original design without permission of manufacturer.

General Guidance

An **isolation Transformer should always be used** during the servicing of a receiver whose chassis is not isolated from the AC power line. Use a transformer of adequate power rating as this protects the technician from accidents resulting in personal injury from electrical shocks.

It will also protect the receiver and it's components from being damaged by accidental shorts of the circuitry that may be inadvertently introduced during the service operation.

If any fuse (or Fusible Resistor) in this TV receiver is blown, replace it with the specified.

When replacing a high wattage resistor (Oxide Metal Film Resistor, over 1W), keep the resistor 10mm away from PCB.

Keep wires away from high voltage or high temperature parts.

Before returning the receiver to the customer,

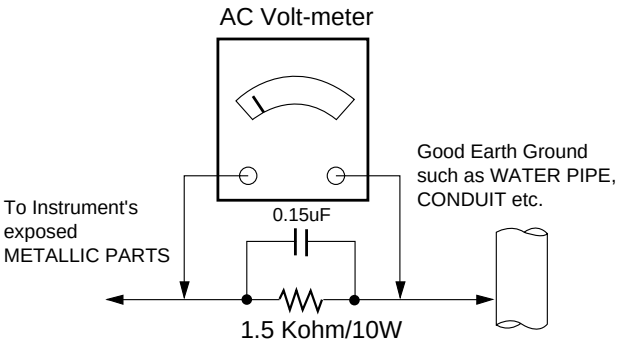
always perform an **AC leakage current check** on the exposed metallic parts of the cabinet, such as antennas, terminals, etc., to be sure the set is safe to operate without damage of electrical shock.

Leakage Current Cold Check(Antenna Cold Check)
With the instrument AC plug removed from AC source, connect an electrical jumper across the two AC plug prongs. Place the AC switch in the on position, connect one lead of ohm-meter to the AC plug prongs tied together and touch other ohm-meter lead in turn to each exposed metallic parts such as antenna terminals, phone jacks, etc.
If the exposed metallic part has a return path to the chassis, the measured resistance should be between 1MΩ and 5.2MΩ.
When the exposed metal has no return path to the chassis the reading must be infinite.
An other abnormality exists that must be corrected before the receiver is returned to the customer.

Leakage Current Hot Check (See below Figure)
Plug the AC cord directly into the AC outlet.

Do not use a line Isolation Transformer during this check.
Connect 1.5K/10watt resistor in parallel with a 0.15uF capacitor between a known good earth ground (Water Pipe, Conduit, etc.) and the exposed metallic parts.
Measure the AC voltage across the resistor using AC voltmeter with 1000 ohms/volt or more sensitivity.
Reverse plug the AC cord into the AC outlet and repeat AC voltage measurements for each exposed metallic part. Any voltage measured must not exceed 0.75 volt RMS which is corresponds to 0.5mA.
In case any measurement is out of the limits specified, there is possibility of shock hazard and the set must be checked and repaired before it is returned to the customer.

Leakage Current Hot Check circuit



SERVICING PRECAUTIONS

CAUTION: Before servicing receivers covered by this service manual and its supplements and addenda, read and follow the *SAFETY PRECAUTIONS* on page 3 of this publication.

NOTE: If unforeseen circumstances create conflict between the following servicing precautions and any of the safety precautions on page 3 of this publication, always follow the safety precautions. Remember: Safety First.

General Servicing Precautions

1. Always unplug the receiver AC power cord from the AC power source before;
   a. Removing or reinstalling any component, circuit board module or any other receiver assembly.
   b. Disconnecting or reconnecting any receiver electrical plug or other electrical connection.
   c. Connecting a test substitute in parallel with an electrolytic capacitor in the receiver.
   CAUTION: A wrong part substitution or incorrect polarity installation of electrolytic capacitors may result in an explosion hazard.
2. Test high voltage only by measuring it with an appropriate high voltage meter or other voltage measuring device (DVM, FETVOM, etc) equipped with a suitable high voltage probe.
   Do not test high voltage by "drawing an arc".
3. Do not spray chemicals on or near this receiver or any of its assemblies.
4. Unless specified otherwise in this service manual, clean electrical contacts only by applying the following mixture to the contacts with a pipe cleaner, cotton-tipped stick or comparable non-abrasive applicator; 10% (by volume) Acetone and 90% (by volume) isopropyl alcohol (90%-99% strength)
   CAUTION: This is a flammable mixture.
   Unless specified otherwise in this service manual, lubrication of contacts in not required.
5. Do not defeat any plug/socket B+ voltage interlocks with which receivers covered by this service manual might be equipped.
6. Do not apply AC power to this instrument and/or any of its electrical assemblies unless all solid-state device heat sinks are correctly installed.
7. Always connect the test receiver ground lead to the receiver chassis ground before connecting the test receiver positive lead.
   Always remove the test receiver ground lead last.
8. *Use with this receiver only the test fixtures specified in this service manual.*
   CAUTION: Do not connect the test fixture ground strap to any heat sink in this receiver.

Electrostatically Sensitive (ES) Devices

Some semiconductor (solid-state) devices can be damaged easily by static electricity. Such components commonly are called *Electrostatically Sensitive (ES) Devices.* Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by static by static electricity.

1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any electrostatic charge on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging wrist strap device, which should be removed to prevent potential shock reasons prior to applying power to the unit under test.
2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as aluminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
4. Use only an anti-static type solder removal device. Some solder removal devices not classified as "anti-static" can generate electrical charges sufficient to damage ES devices.
5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, aluminum foil or comparable conductive material).
7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.
   CAUTION: Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.
8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise harmless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity sufficient to damage an ES device.)

General Soldering Guidelines

1. Use a grounded-tip, low-wattage soldering iron and appropriate tip size and shape that will maintain tip temperature within the range or 500¡ÆF to 600¡ÆF.
2. Use an appropriate gauge of RMA resin-core solder composed of 60 parts tin/40 parts lead.
3. Keep the soldering iron tip clean and well tinned.
4. Thoroughly clean the surfaces to be soldered. Use a mall wire-bristle (0.5 inch, or 1.25cm) brush with a metal handle.
   Do not use freon-propelled spray-on cleaners.
5. Use the following unsoldering technique
   a. Allow the soldering iron tip to reach normal temperature. (500¡ÆF to 600¡ÆF)
   b. Heat the component lead until the solder melts.
   c. Quickly draw the melted solder with an anti-static, suction-type solder removal device or with solder braid.
   CAUTION: Work quickly to avoid overheating the circuitboard printed foil.
6. Use the following soldering technique.
   a. Allow the soldering iron tip to reach a normal temperature (500¡ÆF to 600¡ÆF)
   b. First, hold the soldering iron tip and solder the strand against the component lead until the solder melts.
   c. Quickly move the soldering iron tip to the junction of the component lead and the printed circuit foil, and hold it there only until the solder flows onto and around both the component lead and the foil.
   CAUTION: Work quickly to avoid overheating the circuit board printed foil.
   d. Closely inspect the solder area and remove any excess or splashed solder with a small wire-bristle brush.

IC Remove/Replacement

Some chassis circuit boards have slotted holes (oblong) through which the IC leads are inserted and then bent flat against the circuit foil. When holes are the slotted type, the following technique should be used to remove and replace the IC. When working with boards using the familiar round hole, use the standard technique as outlined in paragraphs 5 and 6 above.

Removal

1. Desolder and straighten each IC lead in one operation by gently prying up on the lead with the soldering iron tip as the solder melts.
2. Draw away the melted solder with an anti-static suction-type solder removal device (or with solder braid) before removing the IC.

Replacement

1. Carefully insert the replacement IC in the circuit board.
2. Carefully bend each IC lead against the circuit foil pad and solder it.
3. Clean the soldered areas with a small wire-bristle brush. (It is not necessary to reapply acrylic coating to the areas).

"Small-Signal" Discrete Transistor Removal/Replacement

1. Remove the defective transistor by clipping its leads as close as possible to the component body.
2. Bend into a "U" shape the end of each of three leads remaining on the circuit board.
3. Bend into a "U" shape the replacement transistor leads.
4. Connect the replacement transistor leads to the corresponding leads extending from the circuit board and crimp the "U" with long nose pliers to insure metal to metal contact then solder each connection.

Power Output, Transistor Device Removal/Replacement

1. Heat and remove all solder from around the transistor leads.
2. Remove the heat sink mounting screw (if so equipped).
3. Carefully remove the transistor from the heat sink of the circuit board.
4. Insert new transistor in the circuit board.
5. Solder each transistor lead, and clip off excess lead.
6. Replace heat sink.

Diode Removal/Replacement

1. Remove defective diode by clipping its leads as close as possible to diode body.
2. Bend the two remaining leads perpendicular y to the circuit board.
3. Observing diode polarity, wrap each lead of the new diode around the corresponding lead on the circuit board.
4. Securely crimp each connection and solder it.
5. Inspect (on the circuit board copper side) the solder joints of the two "original" leads. If they are not shiny, reheat them and if necessary, apply additional solder.

Fuse and Conventional Resistor Removal/Replacement

1. Clip each fuse or resistor lead at top of the circuit board hollow stake.
2. Securely crimp the leads of replacement component around notch at stake top.
3. Solder the connections.
   CAUTION: Maintain original spacing between the replaced component and adjacent components and the circuit board to prevent excessive component temperatures.

Circuit Board Foil Repair

Excessive heat applied to the copper foil of any printed circuit board will weaken the adhesive that bonds the foil to the circuit board causing the foil to separate from or "lift-off" the board. The following guidelines and procedures should be followed whenever this condition is encountered.

At IC Connections

To repair a defective copper pattern at IC connections use the following procedure to install a jumper wire on the copper pattern side of the circuit board. (Use this technique only on IC connections).

1. Carefully remove the damaged copper pattern with a sharp knife. (Remove only as much copper as absolutely necessary).
2. carefully scratch away the solder resist and acrylic coating (if used) from the end of the remaining copper pattern.
3. Bend a small "U" in one end of a small gauge jumper wire and carefully crimp it around the IC pin. Solder the IC connection.
4. Route the jumper wire along the path of the out-away copper pattern and let it overlap the previously scraped end of the good copper pattern. Solder the overlapped area and clip off any excess jumper wire.

At Other Connections

Use the following technique to repair the defective copper pattern at connections other than IC Pins. This technique involves the installation of a jumper wire on the component side of the circuit board.

1. Remove the defective copper pattern with a sharp knife. Remove at least 1/4 inch of copper, to ensure that a hazardous condition will not exist if the jumper wire opens.
2. Trace along the copper pattern from both sides of the pattern break and locate the nearest component that is directly connected to the affected copper pattern.
3. Connect insulated 20-gauge jumper wire from the lead of the nearest component on one side of the pattern break to the lead of the nearest component on the other side. Carefully crimp and solder the connections.
   CAUTION: Be sure the insulated jumper wire is dressed so the it does not touch components or sharp edges.

SPECIFICATION

NOTE : Specifications and others are subject to change without notice for improvement.

1. Application range

1.1 This spec sheet is applied all of the 32/37/42" LCD TV with LA63E chassis.

1.2 Not included spec and each product spec in this spec sheet apply correspondingly to the following each country standard and requirement of Buyer

2. Specification

Each part is tested as below without special appointment.

2.1 Temperature : 20±5°C

2.2 Relative Humidity : 65±10%

2.3 Power Voltage : Standard input voltage (110~240V@50/60Hz)

* Standard Voltage of each product is marked by models

2.4 Specification and performance of each parts are followed each drawing and specification by part number in accordance with BOM.

2.5 The receiver must be operated for about 20 minutes prior to the adjustment.

3. Test method

3.1 Performance : LGE TV test method followed

3.2 Demanded other specification

Safety : UL, CSA, IEC specification

EMC : FCC, ICES, IEC specification

4.General Specification(TV)

No	Item	Specification	Remark
1.	Receiving System	ATSC/64 & 256 QAM/ NTSC-M	
2.	Available Channel	1) VHF : 02~13 2) UHF : 14~69 3) DTV : 02-69 4) CATV : 01~135 5) CADTV : 01~135	
3.	Input Voltage	1) AC 100 ~ 240V 50/60Hz	
4.	Market	NORTH AMERICA	
5.	Screen Size	32 inch Wide	For 32LC2D
		37 inch Wide	For 37LC2D
		42 inch Wide	For 42LC2D
6.	Aspect Ratio	16:9	
7.	Tuning System	FS	
8.	LCD Module	T315XW01 V5	For 32LC2D
		LC370WX1-SL15	For 37LC2D
		LC420W02-SLA1	For 42LC2D
9.	Operating Environment	1) Temp : 0 ~ 40 deg 2) Humidity : ~ 80 %	
10.	Storage Environment	1)Temp : -20 ~ 60 deg 2) Humidity : 0 ~ 90 %	

5. Chroma & Brightness

5.1 FOR 32LC2D

CONDITION : EZ-Picture "Normal"

No	Item			Min	Typ	Max	Unit	Remark
1.	White peak brightness			400	450		cd/m²	HDMI input, full white
2.	Contrast Ratio			600:1	800:1			
3.	Brightness uniformity					1.3		Refer to LCD SPEC.
4.	Color coordinate	RED	X		0.633			+/- 0.03
			Y		0.339			+/- 0.03
		GREEN	X		0.286			+/- 0.03
			Y		0.610			+/- 0.03
		BLUE	X		0.147			+/- 0.03
			Y		0.065			+/- 0.03
		WHITE	X		0.272			+/- 0.03
			Y		0.278			+/- 0.03
5.	Viewing angle				178			R/L, U/D
6.	Color Temperature	Standard		8,300	9,300	10,300		<Test Signal>
		Cool		11,000	12,000	13,000		HDMI input,
		Warm		5,500	6,500	7,500		Daylight/Cool85 IRE

5.2 FOR 37LC2D

CONDITION : EZ-Picture "Normal"

No	Item			Min	Typ	Max	Unit	Remark
1.	White peak brightness			400	500		cd/m²	HDMI input, full white
2.	Contrast Ratio			600:1	800:1			
3.	Brightness uniformity					1.3		Refer to LCD SPEC.
4.	Color coordinate	RED	X		0.633			+/- 0.03
			Y		0.339			+/- 0.03
		GREEN	X		0.286			+/- 0.03
			Y		0.610			+/- 0.03
		BLUE	X		0.147			+/- 0.03
			Y		0.065			+/- 0.03
		WHITE	X		0.272			+/- 0.03
			Y		0.278			+/- 0.03
5.	Viewing angle				178			R/L, U/D
6.	Color Temperature	Standard		8,300	9,300	10,300		<Test Signal>
		Cool		11,000	12,000	13,000		HDMI input, With 16-gray
		Warm		5,500	6,500	7,500		pattern, 6th bar from right

5.3 FOR 42LC2D
CONDITION : EZ-Picture "Normal"

No	Item			Min	Typ	Max	Unit	Remark
1.	White peak brightness			400	500		cd/m²	HDMI input, full white
2.	Contrast Ratio			600:1	800:1			
3.	Brightness uniformity					1.3		Refer to LCD SPEC.
4.	Color coordinate	RED	X		0.633			+/- 0.03
			Y		0.339			+/- 0.03
		GREEN	X		0.286			+/- 0.03
			Y		0.610			+/- 0.03
		BLUE	X		0.147			+/- 0.03
			Y		0.065			+/- 0.03
		WHITE	X		0.272			+/- 0.03
			Y		0.278			+/- 0.03
5.	Viewing angle				178			R/L, U/D
6.	Color Temperature	Standard		8,300	9,300	10,300		<Test Signal>
		Cool		11,000	12,000	13,000		HDMI input
		Warm		5,500	6,500	7,500		Daylight/Cool85 IRE

6. Component Video Input (Y, CB/PB, CR/PR)

No	Resolution	H-freq(kHz)	V-freq(Hz)	Pixel clock	Proposed
1.	720*480	15.73	59.94		SDTV ,DVD 480I
2.	720*480	15.73	60.00		SDTV ,DVD 480I
3.	720*480	31.47	59.94		SDTV 480P
4.	720*480	31.50	60.00		SDTV 480P
5.	1280*720	44.96	59.94		HDTV 720P
6.	1280*720	45.00	60.00		HDTV 720P
7.	1920*1080	33.72	59.94		HDTV 1080I
8.	1920*1080	33.75	60.00		HDTV 1080I
9	1920*1080	27	24		HDTV 1080P
10	1920*1080	33.75	30		HDTV 1080P

7. RGB Iinput (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
	PC					
1	640*350	31.469	70.08	25.17	DOS	O
2	720*400	31.469	70.08	28.32	DOS	O
3	640*480	31.469	59.94	25.17	VESA(VGA)	O
4	800*600	37.879	60.31	40.00	VESA(SVGA)	O
5	1024*768	48.363	60.00	65.00	VESA(XGA)	O
6	1280*768	47.776	59.87	79.50	VESA(WXGA)	O
7	1360*768	47.712	60.01	85.50	VESA(WXGA)	O
8	1366*768	60.023	60.00	80.00		

8. HDMI Input (PC/DTV)

No	Resolution	H-freq(kHz)	V-freq.(Hz)	Pixel clock(MHz)	Proposed	
	PC					DDC
1.	640*480	31.469	59.94	25.17	VESA(VGA)	O
2.	800*600	37.879	60.31	40.00	VESA(SVGA)	O
3.	1024*768	48.363	60.00	65.00	VESA(XGA)	O
4.	1280*768	47.776	59.87	79.50	VESA(WXGA)	O
5.	1360*768	47.712	60.01	85.50	VESA(WXGA)	O
6.	1366*768	60.023	60.00	80.00		
	DTV					
7.	720*480	31.469	59.94	27.00	SDTV 480P	
8.	720*480	31.500	60.00	27.03	SDTV 480P	
9.	1280*720	44.96	59.94	74.17	HDTV 720P	
10.	1280*720	45.00	60.00	74.25	HDTV 720P	
11.	1920*1080	33.72	59.94	74.17	HDTV 1080I	
12.	1920*1080	33.75	60.00	74.25	HDTV 1080I	
13.	1920*1080	27	24.00	74.25	HDTV 1080P	
14.	1920*1080	33.75	30.00	74.25	HDTV 1080P	

9. Mechanical specification

<32LC2D>

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	811	235	630	With Stand
		After Packing	912	316	695	
2	Product Weight	Only SET	22Kg			With Stand
		With Box	25.5Kg			

<37LC2D>

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	944	286	726	With Stand
		After Packing	1052	383	855	
2	Product Weight	Only SET	27.44Kg			With Stand
		With Box	29.74Kg			

<42LC2D>

No,	Item		Content			Remark
1	Product Dimenson		Width(W)	Length(D)	Height(H)	
		Before Packing	1054	286	813.5	With Stand
		After Packing	1166	402	953	
2	Product Weight	Only SET	37Kg			With Stand
		With Box	42.3Kg			

ADJUSTMENT INSTRUCTION

1. Application Object

These instructions are applied to all of the LCD TV, LA63E.

2. Notes

(1) Because this is not a hot chassis, it is not necessary to use an isolation transformer. However, the use of isolation transformer will help protect test equipment.
(2) Adjustments must be done in the correct order.
(3) The adjustments must be performed in the circumstance of 20±5°C of temperature and 65±10% of relative humidity if there is no specific designation.
(4) The input voltage of the receiver be must kept 110V, 60Hz when adjusting.
(5) The receiver must be operational for about 15 minutes prior to the adjustments.

¡ Perform preliminary operation after receiving 100% White Pattern (06CH).
(Or 3. White Pattern status of Ez-Adjust)
¡ White Pattern entry method
A) Enter into Ez-Adjust by pressing the ADJ key on the adjustment R/C.
B) 100% FULL WHITE PATTERN appears if pressing the OK (¡Æ) key after selecting the 3.WHITE PATTERN with the CH + / - KEY.

* It is possible to heat run the set without a separate signal generator in this mode.

Caution : Care must be taken as afterimage phenomena may occur about the black level part of screen If leaving pause image turned on for more than 20 minutes (especially inner digital pattern (13 CH), Cross Hatch Pattern (09CH) with significant black/white contrast).

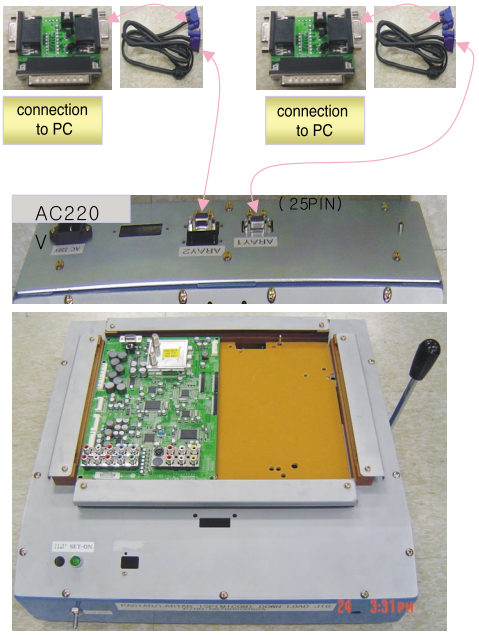
If you turn on a still screen more than 20 minutes (Especially Digital pattern(13 CH), Cross Hatch Pattern), an afterimage may occur in the black level part of the screen.

3. MICOM Download(Option)

3-1. Required Test Equipment

(1) JIG-LEVER TYPE for adjusting: 1EA
(2) PC & MONITOR: 2EA
(3) BOARD for INTERFACE: IIC & ISP BOARD: 2EA
(4) 15P D-SUB CABLE: 2EA
(5) Using the 12/15 line of D-SUB 15P
12-SDA/15-SCL

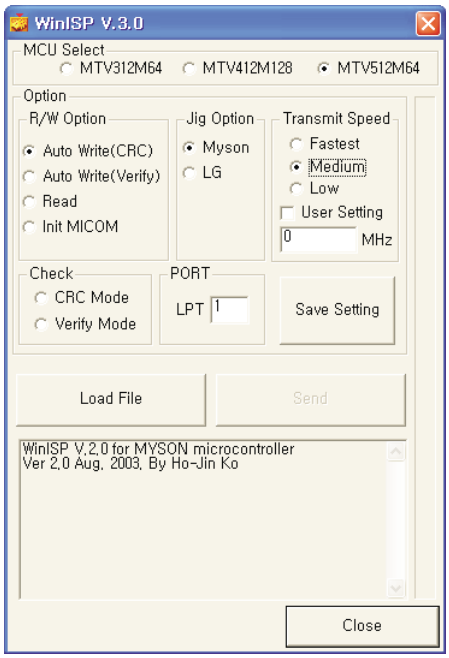
3-2. JIG Connection



3-3. Establishment Program

(1) Establish LGE Monitor Tools v1.1
(2) The program work and it is opened program window as seen below.

(3) Click the first icon shown in fig.9. The window seen in fig.10 should appear.



3-4. Set Method

(1) MCU Select: MTV512M64

(2) Option

R/W Option: Auto Write(Verity)

Jig Option: Myson

Transmit Speed: Medium

(3) Check: Just do it with blank micom.

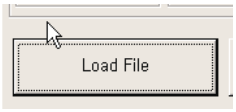
(4) PORT

Chose Parallel Port (normal LPT1)

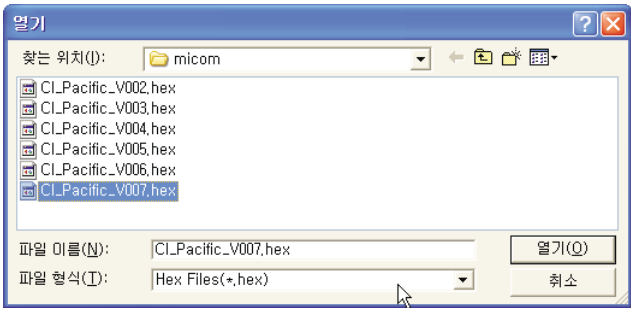
Attention: You must chose EPP when select Rom BIAS at LPT

3-5. Download Method

(1) Click the Load File.

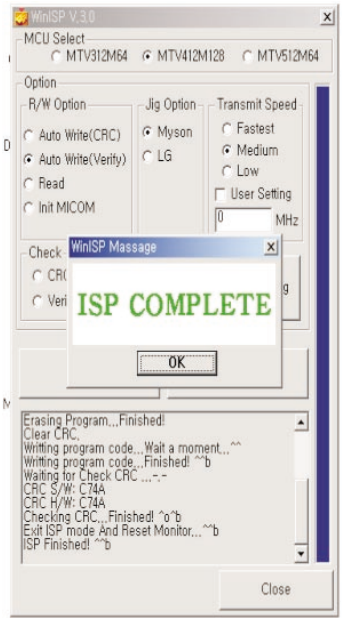


(2) Locate and select the correct file from your computer. (*.hex).



(3) Click the Send.

(4) When you see (ISP COMPLETE) the download is complete.



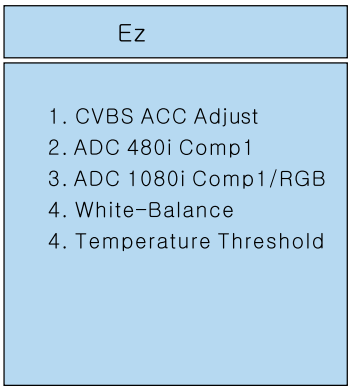
4. ADC-Set Adjustment

4-1. Synopsis

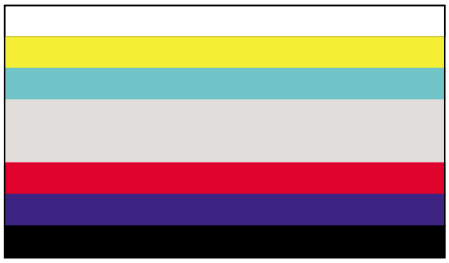
ADC-Set adjustment to set the black level and the Gain to optimum.

4-2. Test Equipment

Service R/C, 801GF(802V, 802F, 802R) or MSPG925FA Pattern Generator
(480i/1080i The Horizontal 100% Color Bar Pattern adjust to within 0.7±0.1Vp-p)



<Adjustment Mode>



<Adjustment Pattern: 480i/1080i 60Hz HozTV31Bar Pattern>

4-3. Adjustment

(1) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 480i Mode
(2) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '2. ADC 480i Comp1'.
Pressing the Enter Key to adjust automatically.
(3) When the adjustment is over, 'MST3361 Component Success' is displayed. If the adjustment has errors, 'MST3361 Configuration Error' is displayed.
(4) Select Component1 as the input with 100% Horizontal Color Bar Pattern(HozTV31Bar) in 1080i Mode.
(5) After receiving signal for at least 1 second, press the ADJ Key on the Service R/C to enter the 'Ez - Adjust' and select the '3. ADC 1080i Comp1/RGB'.
Pressing the Enter Key to adjust automatically.
(6) When the adjustment is over, 'MST3361 Component Success' is displayed. If the adjustment has errors, 'MST3361 Configuration Error' is displayed.
(7) After the Component MST3361 adjustment is over, convert the RGB-DTV Mode and display Pattern.
When the adjustment is over, 'MST3361 RGB_DTV Success' is displayed.
(8) Readjust after confirming the case Pattern or adjustment condition where the adjustment errors.
(9) After adjustment is complete, exit the adjustment mode by pressing the ADJ KEY.

6. EDID(The Extended Display Identification Data)/DDC (Display Data Channel) Download

This is the function that enables "Plug and Play".

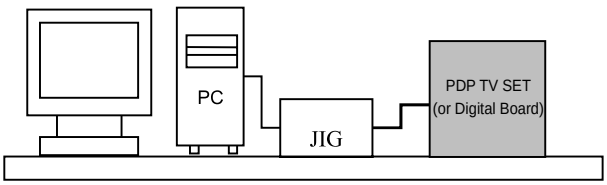
6-1. HDMI EDID Data Input

(1) Required Test Equipment

1) PC, Jig for adjusting DDC. (PC serial to D-sub Connection equipment)
2) S/W for writing DDC(EDID data write & read)
3) D-Sub cable
4) Jig for HDMI Cable connection

(2) Preparation for Adjustments & Setting of Device

1) Set devices as below and turn on the PC and JIG.
2) Open S/W for writing DDC (EDID data write & read). (operated in DOS mode)



<Fig. 2>

6-2. EDID DATA for LA-63E

[32LC2DU]

: EDID for HDMI-1 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	36	00	C4	8E	21	00	00	1E	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	00	00	00	FD	00	38
60	4B	1F	3C	09	00	0A	20	20	20	20	02	20	00	00	00	FC
70	00	33	32	4C	43	32	44	55	2D	55	45	0A	20	20	01	2F

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	10	00	01	1D	00	72	51	D0	1E	20	6E	28	55
20	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20	58
30	2C	25	00	C4	8E	21	00	00	9E	8C	0A	D0	8A	20	E0	2D
40	10	10	3E	96	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20
50	E0	2D	10	10	3E	96	00	13	8E	21	00	00	18	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	A7

: EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28
40	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	33
60	32	4C	43	32	44	55	2D	55	45	0A	20	20	00	00	00	FD
70	00	38	4B	1F	3C	09	00	0A	20	20	20	20	20	20	01	DF

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	20	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
20	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10
30	3E	96	00	13	8E	21	00	00	18	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	35

: EDID for RGB-PC

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	68	73	41	96	0A	CF	30	A3	57	4C	B0	23
20	09	50	4E	A1	08	00	01	01	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	98	07	32	00	00	18	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	66	21	50	B0	51	00
60	1B	30	40	70	36	00	C4	8E	21	00	00	1E	00	00	00	FC
70	00	33	32	4C	43	32	44	55	2D	55	45	0A	20	20	00	E4

[37LC2DU]

: EDID for HDMI-1 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	36	00	C4	8E	21	00	00	1E	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	00	00	00	FD	00	38
60	4B	1F	3C	09	00	0A	20	20	20	20	02	20	00	00	00	FC
70	00	33	37	4C	43	32	44	55	2D	55	45	0A	20	20	01	2A

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	10	00	01	1D	00	72	51	D0	1E	20	6E	28	55
20	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20	58
30	2C	25	00	C4	8E	21	00	00	9E	8C	0A	D0	8A	20	E0	2D
40	10	10	3E	96	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20
50	E0	2D	10	10	3E	96	00	13	8E	21	00	00	18	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	A7

: EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28
40	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	33
60	37	4C	43	32	44	55	2D	55	45	0A	20	20	00	00	00	FD
70	00	38	4B	1F	3C	09	00	0A	20	20	20	20	20	20	01	DA

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	20	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
20	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10
30	3E	96	00	13	8E	21	00	00	18	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	35

: EDID for RGB-PC

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	68	73	41	96	0A	CF	30	A3	57	4C	B0	23
20	09	50	4E	A1	08	00	01	01	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	98	07	32	00	00	18	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	66	21	50	B0	51	00
60	1B	30	40	70	36	00	C4	8E	21	00	00	1E	00	00	00	FC
70	00	33	37	4C	43	32	44	55	2D	55	45	0A	20	20	00	DF

[42LC2DU]

: EDID for HDMI-1 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	66	21	50	B0	51	00	1B	30	40	70
40	36	00	C4	8E	21	00	00	1E	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	00	00	00	FD	00	38
60	4B	1F	3C	09	00	0A	20	20	20	20	02	20	00	00	00	FC
70	00	34	32	4C	43	32	44	55	2D	55	45	0A	20	20	01	2E

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	10	00	01	1D	00	72	51	D0	1E	20	6E	28	55
20	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20	58
30	2C	25	00	C4	8E	21	00	00	9E	8C	0A	D0	8A	20	E0	2D
40	10	10	3E	96	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20
50	E0	2D	10	10	3E	96	00	13	8E	21	00	00	18	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	A7

: EDID for HDMI-2 (DDC (Display Data Channel) Data)

EDID Block 0 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	80	73	41	96	0A	CF	74	A3	57	4C	B0	23
20	09	48	4C	2F	CE	00	31	40	45	40	61	40	01	01	01	01
30	01	01	01	01	01	01	01	1D	00	72	51	D0	1E	20	6E	28
40	55	00	C4	8E	21	00	00	1E	01	1D	80	18	71	1C	16	20
50	58	2C	25	00	C4	8E	21	00	00	9E	00	00	00	FC	00	34
60	32	4C	43	32	44	55	2D	55	45	0A	20	20	00	00	00	FD
70	00	38	4B	1F	3C	09	00	0A	20	20	20	20	20	20	01	DE

EDID Block 1 table =

	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	02	03	15	F1	46	84	05	03	02	20	22	23	15	07	50	65
10	03	0C	00	20	00	8C	0A	D0	8A	20	E0	2D	10	10	3E	96
20	00	C4	8E	21	00	00	18	8C	0A	D0	8A	20	E0	2D	10	10
30	3E	96	00	13	8E	21	00	00	18	00	00	00	00	00	00	00
40	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
50	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
60	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00
70	00	00	00	00	00	00	00	00	00	00	00	00	00	00	00	35

: EDID for RGB-PC

EDID Block 0 table =

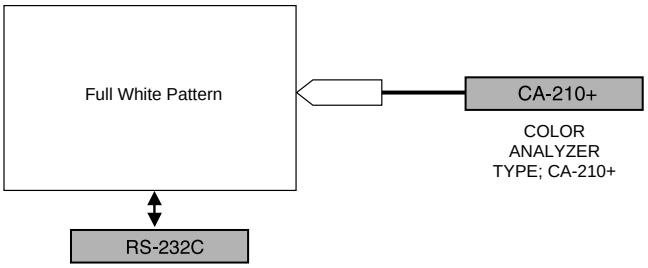
	0	1	2	3	4	5	6	7	8	9	A	B	C	D	E	F
0	00	FF	FF	FF	FF	FF	FF	00	1E	6D	01	00	01	01	01	01
10	00	10	03	00	68	73	41	96	0A	CF	30	A3	57	4C	B0	23
20	09	50	4E	A1	08	00	01	01	01	01	01	01	01	01	01	01
30	01	01	01	01	01	01	64	19	00	40	41	00	26	30	18	88
40	36	00	98	07	32	00	00	18	0E	1F	00	80	51	00	1E	30
50	40	80	37	00	C4	8E	21	00	00	1C	66	21	50	B0	51	00
60	1B	30	40	70	36	00	C4	8E	21	00	00	1E	00	00	00	FC
70	00	34	32	4C	43	32	44	55	2D	55	45	0A	20	20	00	E3

7. Adjustment of White Balance

7-1. Required Equipment

(1) Color analyzer (CA-100 or CA210 similar product)
(2) Automatic adjustor (with automatic adjustment necessity and the RS-232C communication being possible)
(3) Pattern Generator(MSPG-925FA): DVI Output

7-2. Connection Diagram of Equipment for Measuring (Automatic Adjustment)



<Fig. 3> Connection Diagram of Automatic Adjustment

[RS-232C Command (Automatic Adjustment)

	RS-232C COMMAND [CMD ID DATA]			Min	CENTER (DEFAULT)(Decimal)			Max (Decimal)
	Cool	Mid	Warm		Cool	Mid	Warm	
R Gain	Jg	Ja	Jd	00				192
G Gain	Jh	Jb	Je	00				192
B Gain	Ji	Jc	Jf	00				192
R Cut					64	64	64	
G Cut					64	64	64	
B Cut					64	64	64	

7-3. Adjustment of White Balance

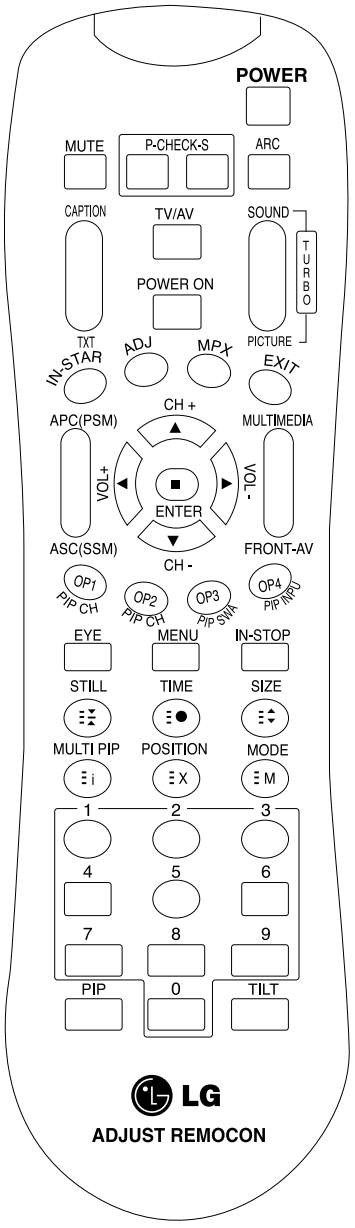
(1) Enter ‘Ez - Adjust’ by pressing ADJ KEY on the Service Remote Control.
(2) Select "9. WHITE PATTERN" using CH +/- Key and HEAT RUN at least 30 minutes by pressing the ENTER Key.
(3) Calibrate of the CA-210+, then attach sensor to LCD module surface when you adjust.
(4) After attaching sensor to center of screen, select ‘6. White-Balance’ of ‘Ez - Adjust’ by pressing the ADJ KEY on the Service R/C. Then enter adjustment mode by pressing the Right KEY (G) .

8. Shipping Conditions

No	Item		Condition	Remark
1.	Input Mode		TV02CH	
2.	Volume Level		30	
3.	Mute		Off	
4.	Aspect Ratio		16:9	
5.	Video	EZ Picture	Daylight	
		Contrast	100	
		Brightness	40	
		Color	70	
		Sharpness	70	
		Tint	0	
		Color-temperature	Cool	
		XD	Auto(On)	
		Advanced	Cinema3:2 Mode(Off) Black Level(RF,HDMI=>Low)	
6.	Audio	Audio Language	Off	
		EZ Sound	Normal	
		Balance	0	
		Treble	50	
		Bass	50	
		Front Surround	Off	
		TV Speaker	On	
7.	Timer	Auto clock	Off	
		Manual Clock	Off	
		Off Timer	Off	
		On Timer	Off	
		Sleep Time	Off	
		Auto Off	Off	
8.	Option	Aspect Ratio	16:9	
		Caption/Text	Off	
		Caption Option	Set By Program	
		Language	English	
9.	Lock	Lock System	Off	
		Set password	On	(Default : 0000)
		Block channel	None	
		Movie Rating	Off	
		TV Rating-Children	None	
		TV Rating-General	None	
		Input Block	Off	
10.	Channel Memory		RF : 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 30, 51, 63 CATV : 15, 16, 17	

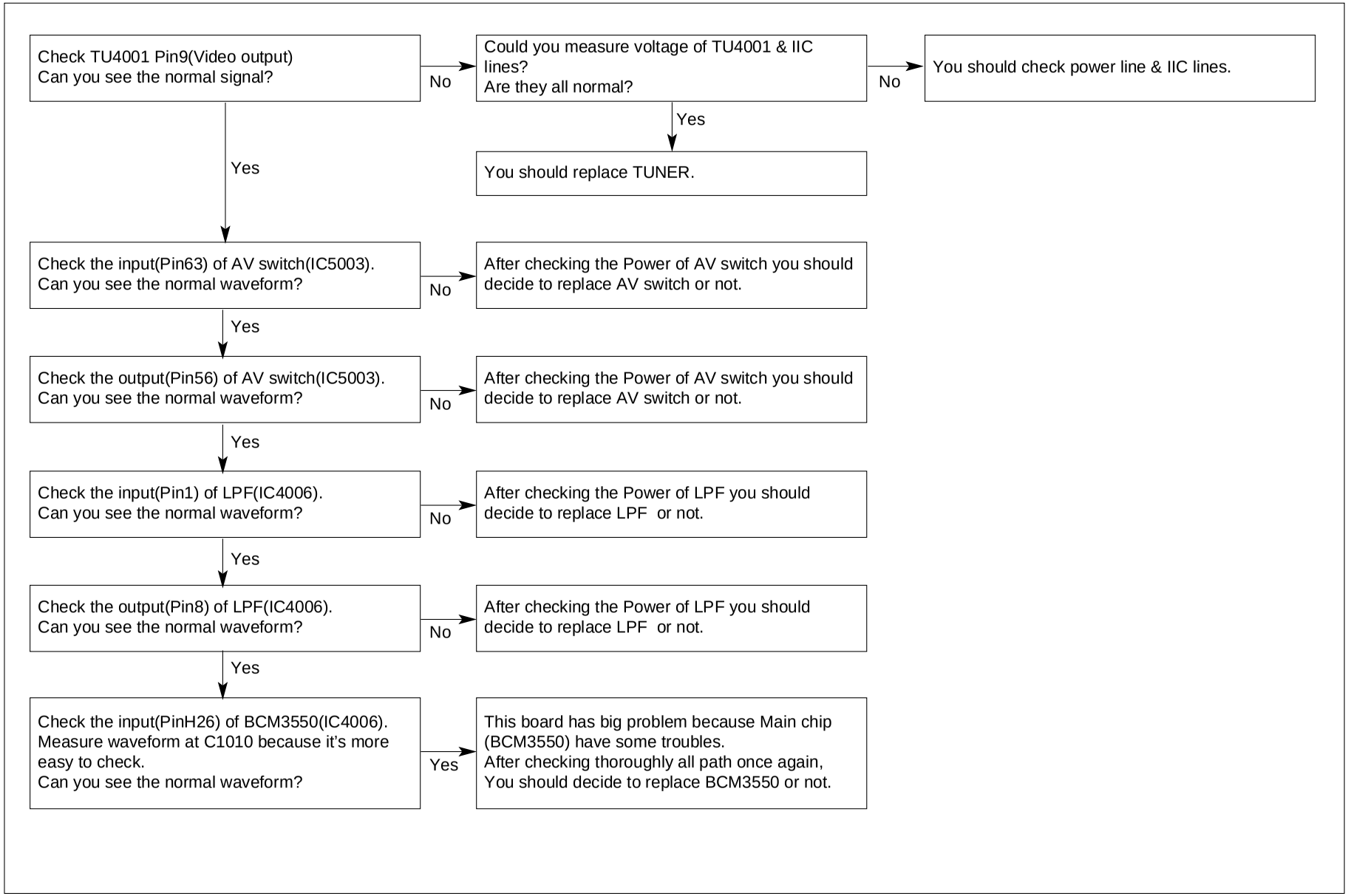
SVC REMOCON

NO	KEY	FUNTION	REAMARK
1	POWER	To turn the TV on or off	
2	POWER ON	To turn the TV on automatically if the power is supplied to the TV. (Use the POWER key to deactivate): It should be deactivated when delivered.	
3	MUTE	To activate the mute function.	
4	P-CHECK	To check TV screen image easily.	Shortcut keys
5	S-CHECK	To check TV screen sound easily	Shortcut keys
6	ARC	To select size of the main screen (Normal, Spectacle, Wide or Zoom)	Shortcut keys
7	CAPTION	Switch to closed caption broadcasting	
8	TXT	To toggle on/off the teletext mode	
9	TV/AV	To select an external input for the TV screen	
10	TURBO SOUND	To start turbo sound	
11	TURBO PICTURE	To start turbo picture	
12	IN-START	To enter adjustment mode when manufacturing the TV sets.	Use the AV key to enter the screen W/B adjustment mode.
		To adjust the screen voltage (automatic): In-start ¡ mute ¡ Adjust ¡ AV(Enter into W/B adjustment mode)	
		W/B adjustment (automatic): After adjusting the screen ¡ W/B adjustment ¡ Exit two times (Adjustment completed)	
13	ADJ	To enter into the adjustment mode. To adjust horizontal line and sub-brightness.	
14	MPX	To select the multiple sound mode (Mono, Stereo or Foreign language)	
15	EXIT	To release the adjustment mode	
16	APC(PSM)	To easily adjust the screen according to surrounding brightness	
17	ASC(SSM)	To easily adjust sound according to the program type	
18	MULTIMIDIA	To check component input	Shortcut keys
19	FRONT-AV	To check the front AV	Shortcut keys
20	CH ¡	To move channel up/down or to select a function displayed on the screen.	
21	VOL ¡	To adjust the volume or accurately control a specific function.	
22	ENTER	To set a specific function or complete setting.	
23	PIP CH-(OP1)	To move the channel down in the PIP screen. To use as a red key in the teletext mode	
24	PIP CH+(OP2)	To move the channel in the PIP screen To use as a green key in the teletext mode	
25	PIP SWAP(OP3)	To switch between the main and sub screens To use as a yellow key in the teletext mode	
26	PIP INPUT(OP4)	To select the input status in the PIP screen To use as a blue key in the teletext mode	
27	EYE	To set a function that will automatically adjust screen status to match the surrounding brightness so natural color can be displayed.	
28	MENU	To select the functions such as video, voice, function or channel.	
29	IN-STOP	To set the delivery condition status after manufacturing the TV set.	
30	STILL	To halt the main screen in the normal mode, or the sub screen at the PIP screen. Used as a hold key in the teletext mode (Page updating is stopped.)	
31	TIME	Displays the teletext time in the normal mode Enables to select the sub code in the teletext mode	
32	SIZE	Used as the size key in the PIP screen in the normal mode Used as the size key in the teletext mode	
33	MULTI PIP	Used as the index key in the teletext mode (Top index will be displayed if it is the top text.)	
34	POSITION	To select the position of the PIP screen in the normal mode Used as the update key in the teletext mode (Text will be displayed if the current page is updated.)	
35	MODE	Used as Mode in the teletext mode	
36	PIP	To select the simultaneous screen	
37	TILT	To adjust screen tilt	Shortcut keys
38	0~9	To manually select the channel.	

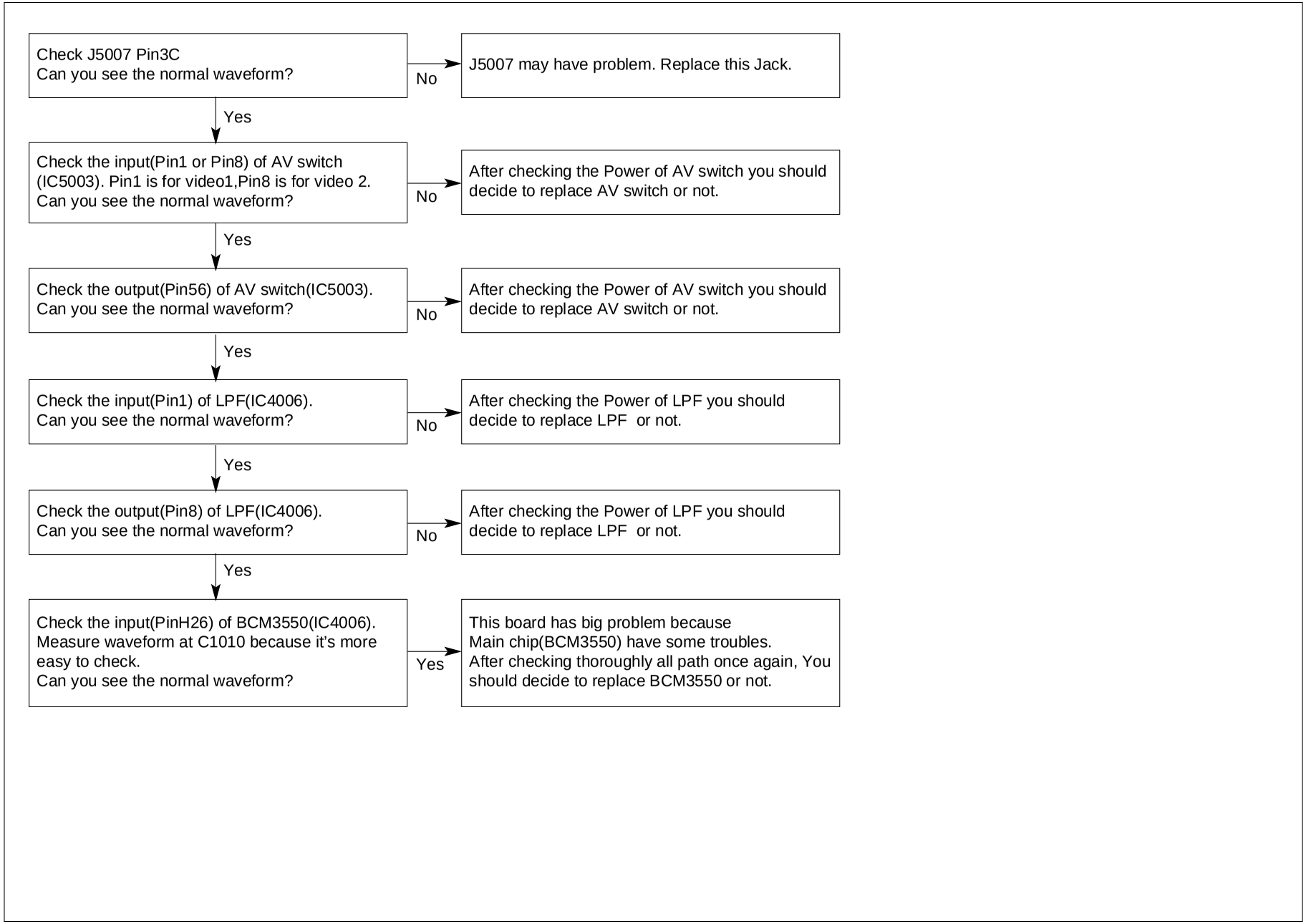


TROUBLESHOOTING

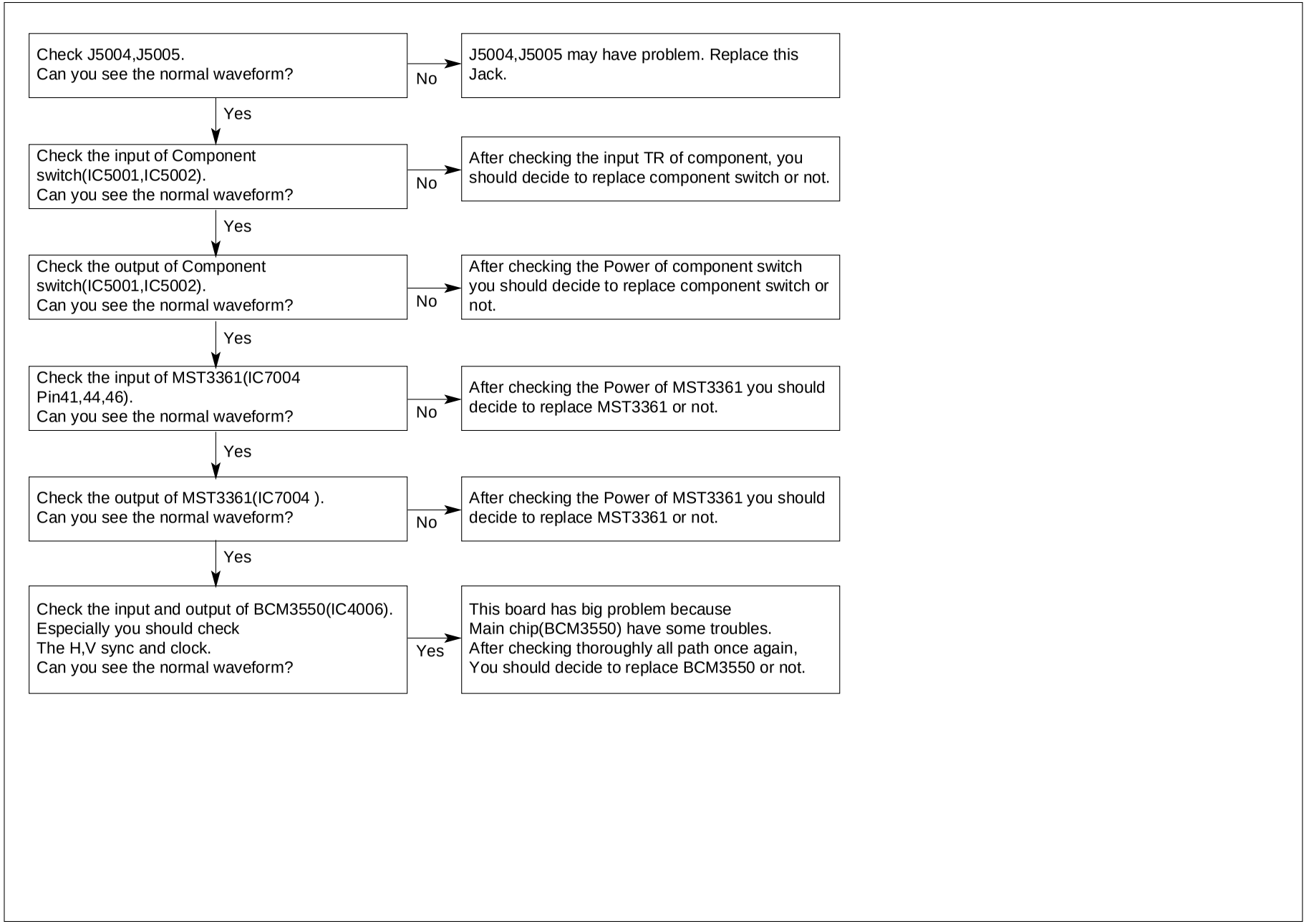
1. TV/CATV doesn't display



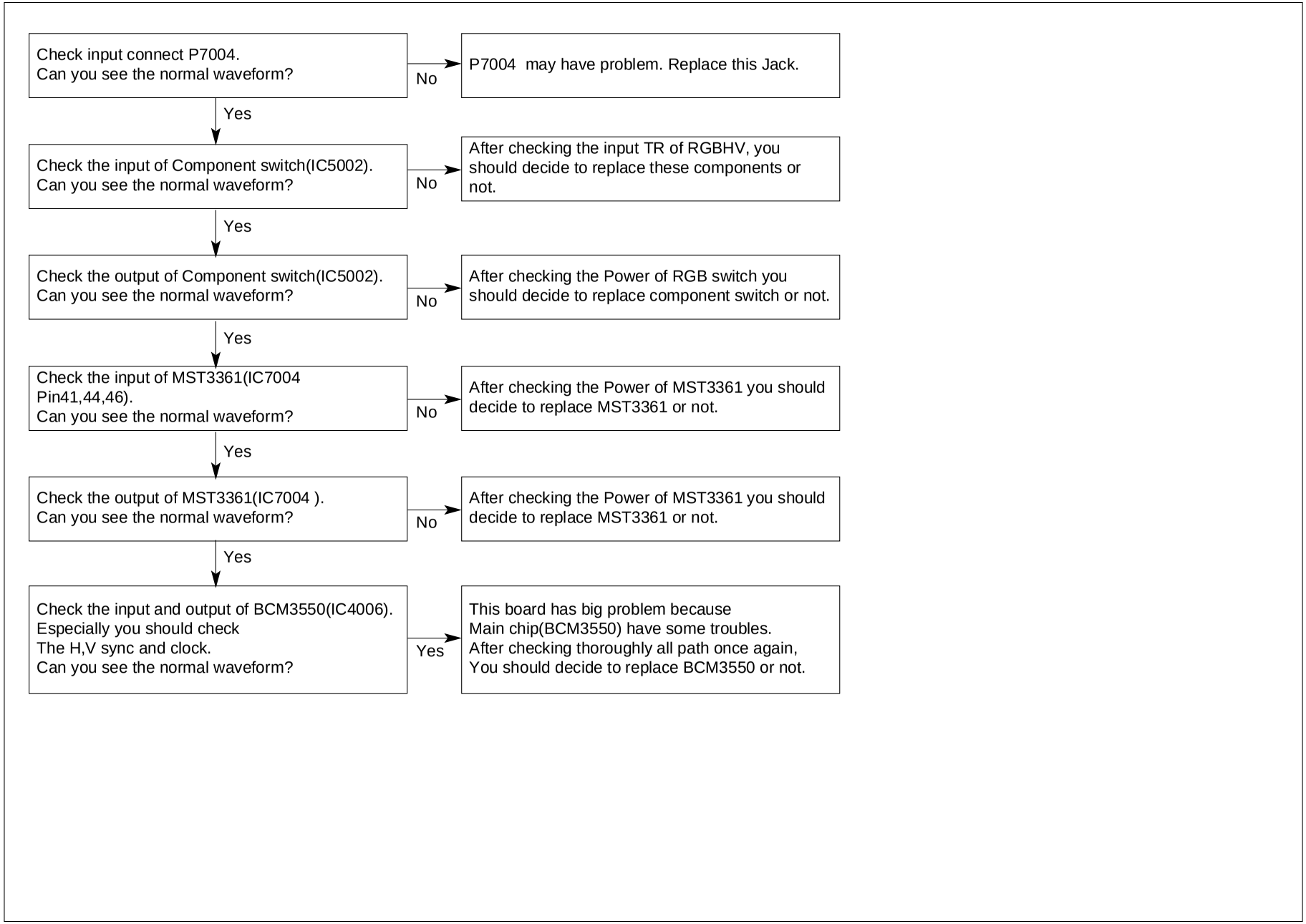
2. Video doesn't display



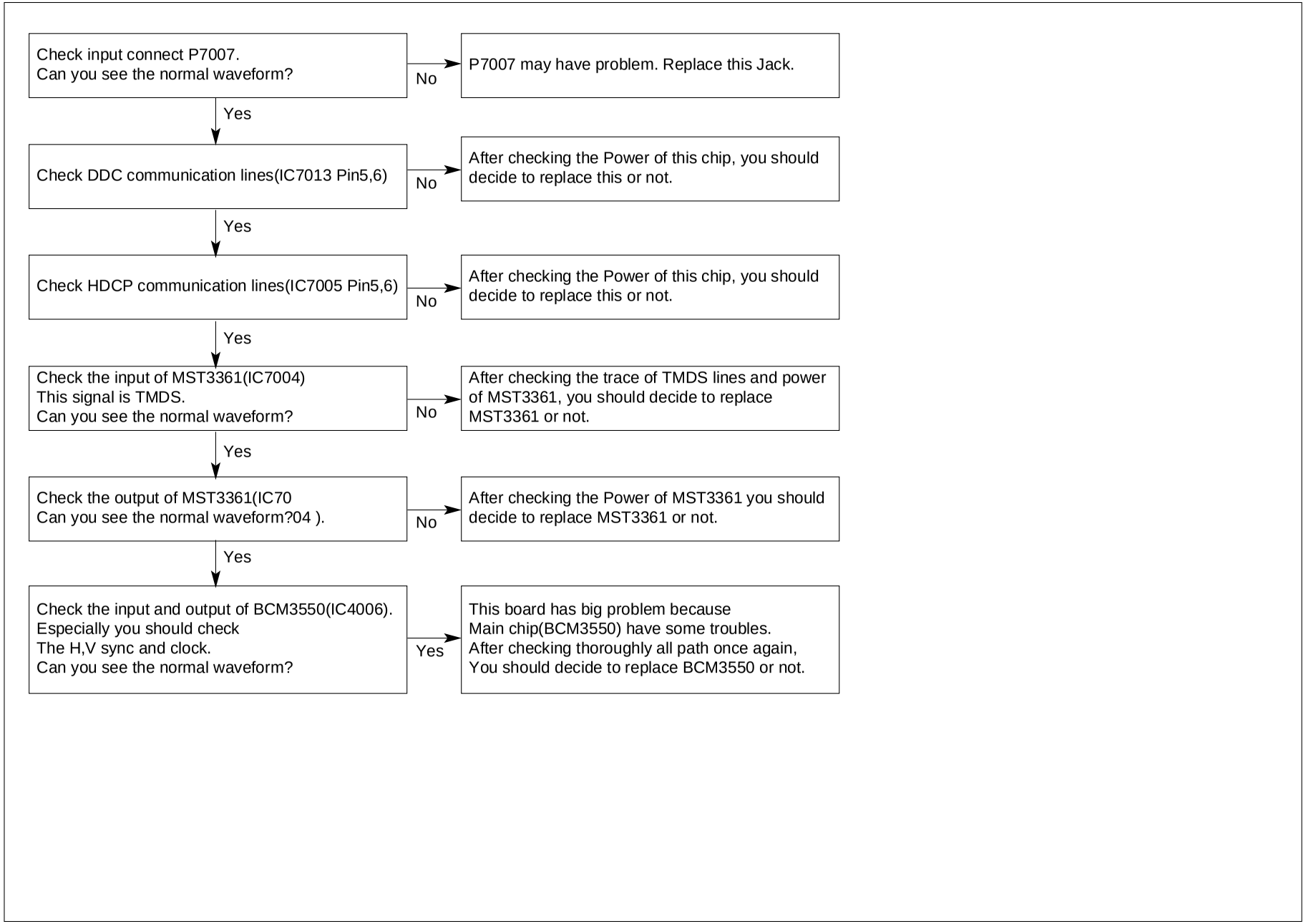
3. Component doesn't display



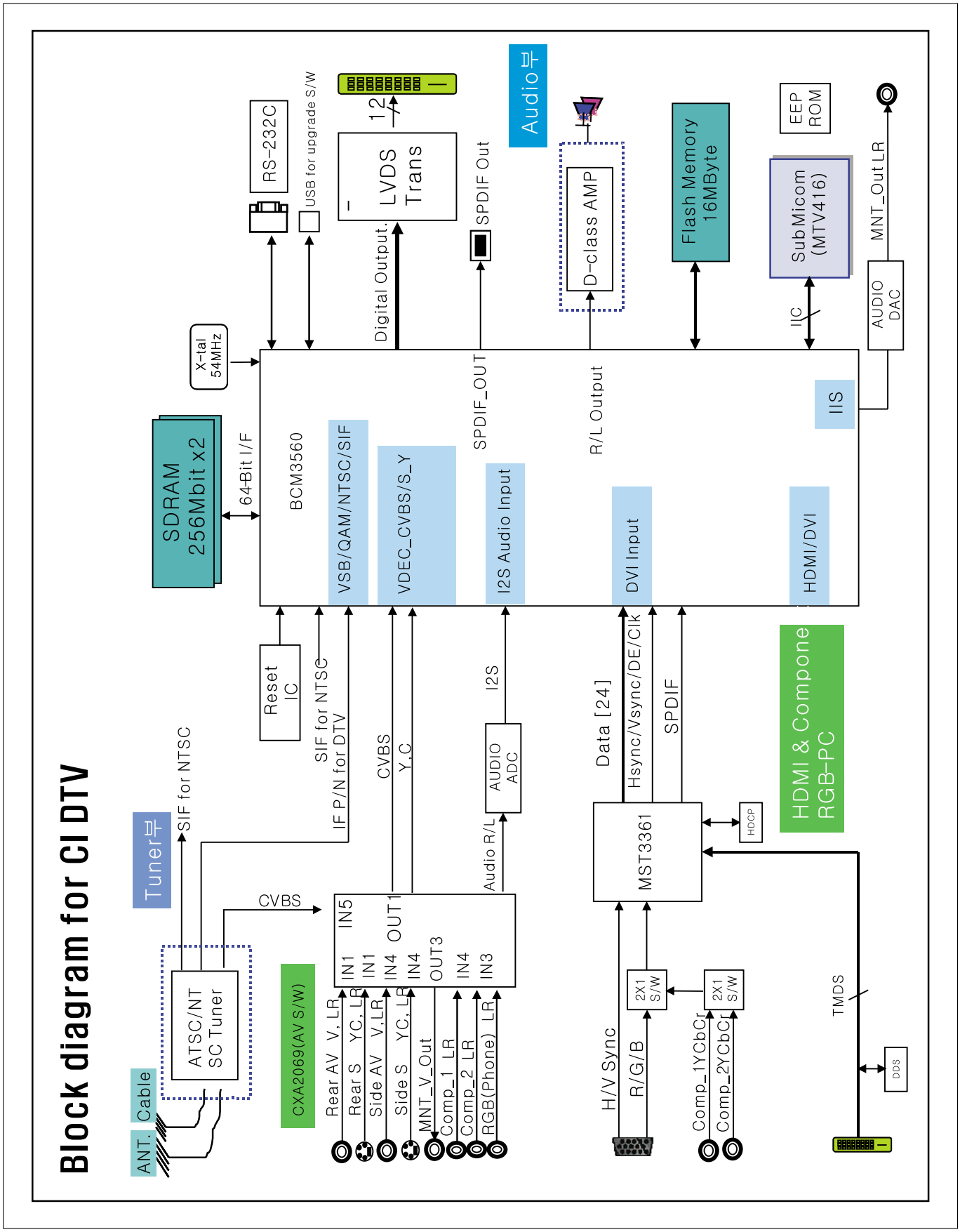
4. RGB_PC doesn't display



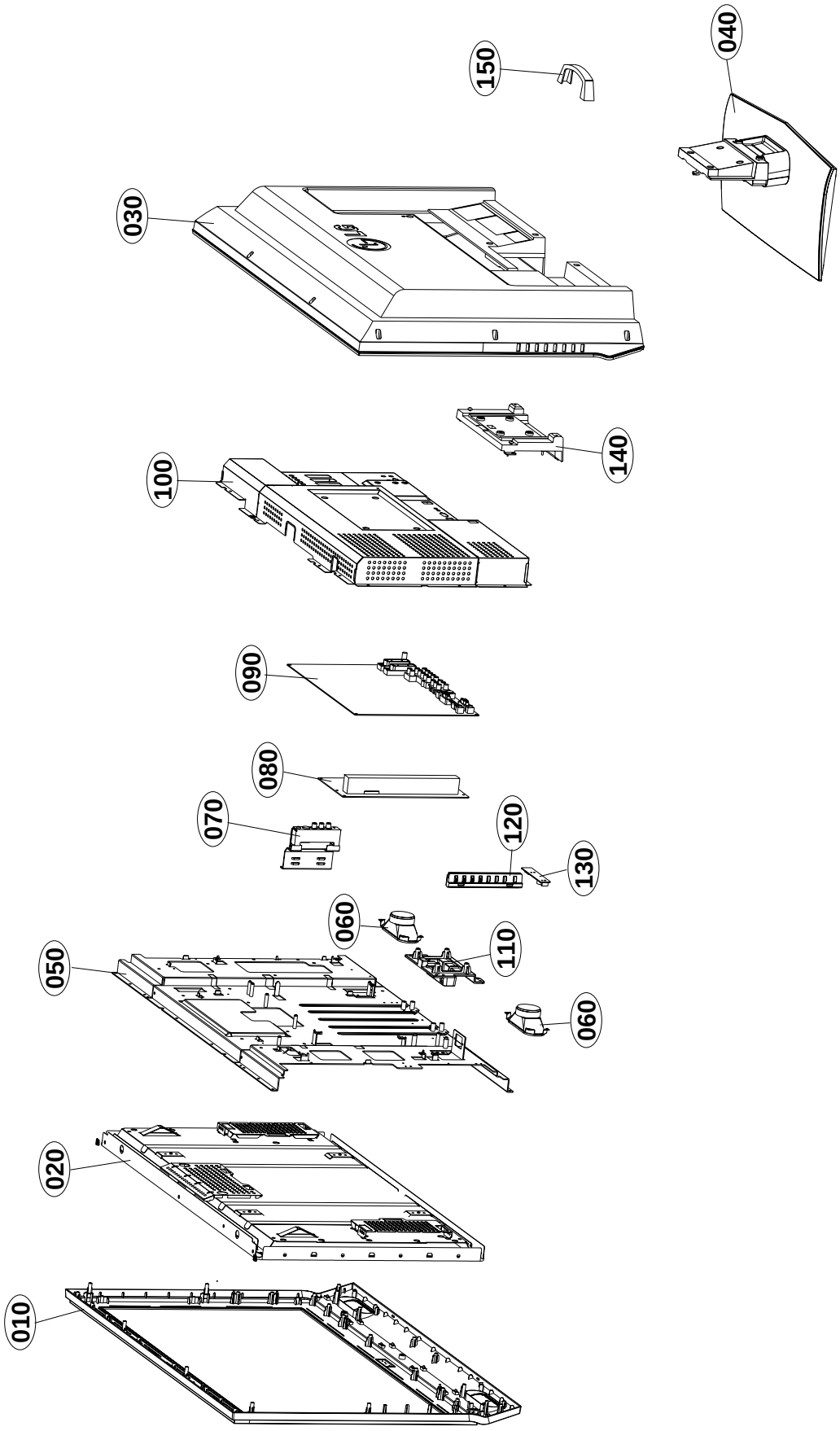
5. HDMI doesn't display



BLOCK DIAGRAM



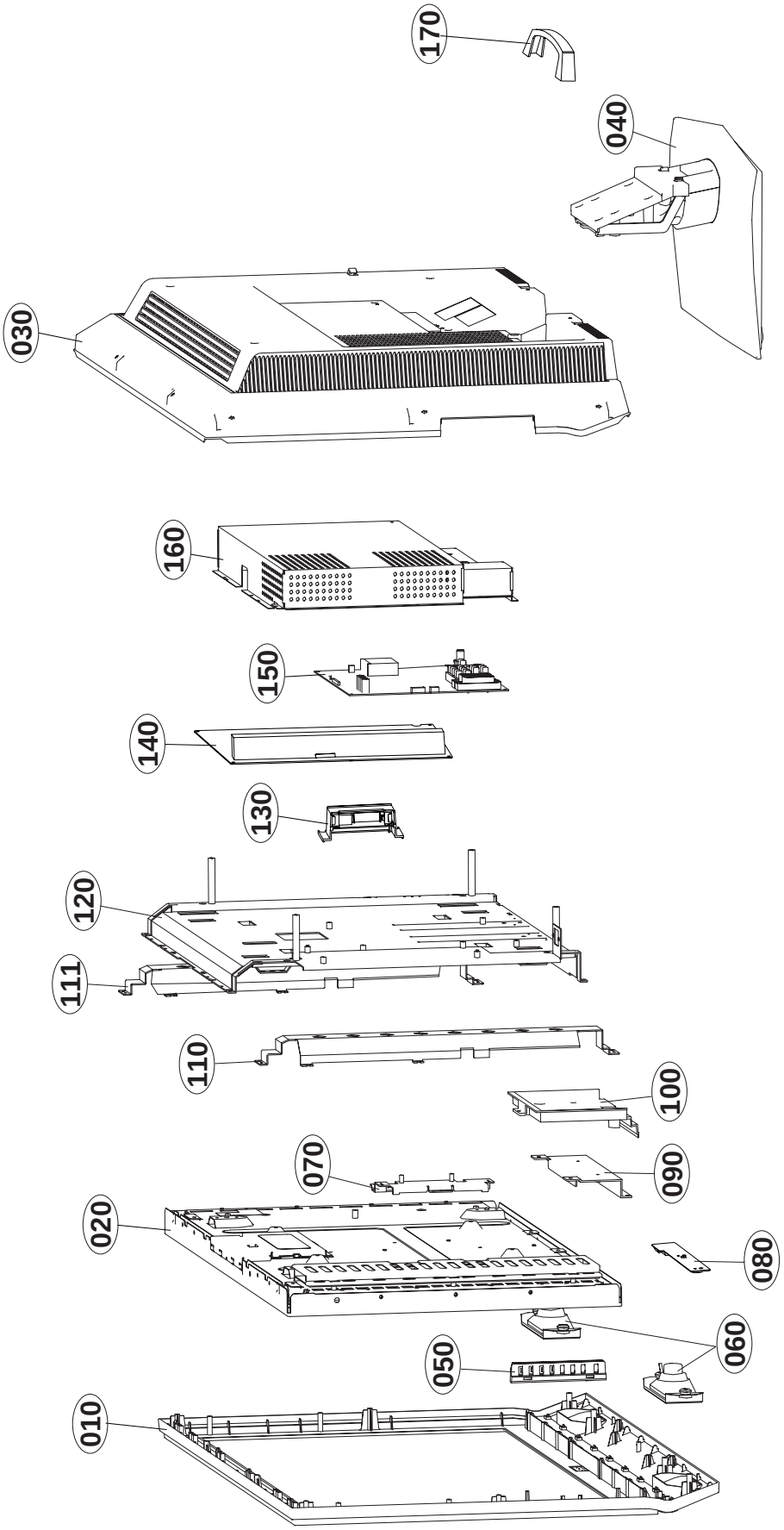
EXPLODED VIEW(32LC2D/U)



EXPLODED VIEW PARTS LIST(32LC2D/U)

No.	PART NO.		DESCRIPTION
010	⚠	30919E0041V	Cover Assembly, 32LC2D-UD BRAND 30909E0019A LGEMX PHANTOM
		30919E0041B	Cover Assembly, 32LC2D-UD BRAND 30909E0019A PACIFIC DTV-32LC2DU(KUMI)
020	⚠	EAJ32763001	LCD,Module-TFT, LC320W01-SL18 WXGA 32INCH 1366X768 500CD COLOR 72% 16/9 800:1 A-TW Pol. P6 LG PHILIPS LCD
		or EAJ30768801	LCD Module, LC320W01-SL14 WXGA 32.0INCH 1366X768 500CD COLOR 72% 16/9 800 NEC Lamp
		6304FAU022A	LCD,Module-TFT, T315XW01-V5 XGA 31.5INCH 1366X768 500CD COLOR 72% 16/9 1200:1 SPREAD SPECTRUM
030	⚠	ACQ31011703	Cover Assembly,Rear, 32LC2D-UE LA63E 32" Pacific2(BCM) C/SKD
040	⚠	3043900026J	Base Assembly, STAND 32LC2D-UD LA51D LGEMX PHANTOM
		3043900026A	Base Assembly, 32LC2D-UD NONE WITHOUT PRINTING-32LC2DU(KUMI)
050		AGU30741006	Plate Assembly, ASSY C/SKD METAL FRAME ASSY FOR 32LC2D-UE LPL module
		AGU30741003	Plate Assembly, ASSY METAL FRAME ASSY C/SKD FOR 32LC2D-UE AUO module
060		EAB30827201	Speaker,Fullrange, C112K01K1450. FERRITE 15W 8OHM 83.5DB 170HZ 116 X 42 X 38.5 LUG
070		68719ST901C	PCB Assembly,Sub, SUB T.T LA51D 32LC2D-UD AKRLLH SIDE TOTAL_DMS apply
		EBR32682101	PCB Assembly, SUB T.T LA63E 32LC2D-UE . Side AV [AUO].[DMS]
080	⚠	6709900016C	SMPS,AC/DC, LGLP2637HEP 90VTO264V 215W 47TO63HZ UL/CSA/SEMKO YY / AT / H&E YUYANG TELECOM CO.,LTD
090		EBU33740901	Main Total Assembly, 32LC2D/U-UE [LPL] BRAND LA63E
		EBU32679601	Main Total Assembly, 32LC2D-UE[AUO] BRAND LA63E
100		MGJ32604602	Plate, PRESS SBHG 0.8 SHIELD SBHG-A C/SKD 32LC2D-UE REAR SHIELD
110		49509K0195B	Plate, FRAME SUPPORT 32LC2 C/SKD
120		68719ST899B	PCB Assembly,Sub, SUB T.T LA51D 32LC2D-UD ALKRLLX KEY TOTAL (EXCEPT MECH"")
130		EBR31360201	PCB Assembly, SUB T.T LA63E 26LC2D-UE . Preamp+LED For DMS
140		35509K0199A	Cover, MOLD HIPS 32LC2 REAR STAND SUPPORTER
150		35509K0197A	Cover, MOLD HIPS 32LC2 CABLE MANAGEMENT

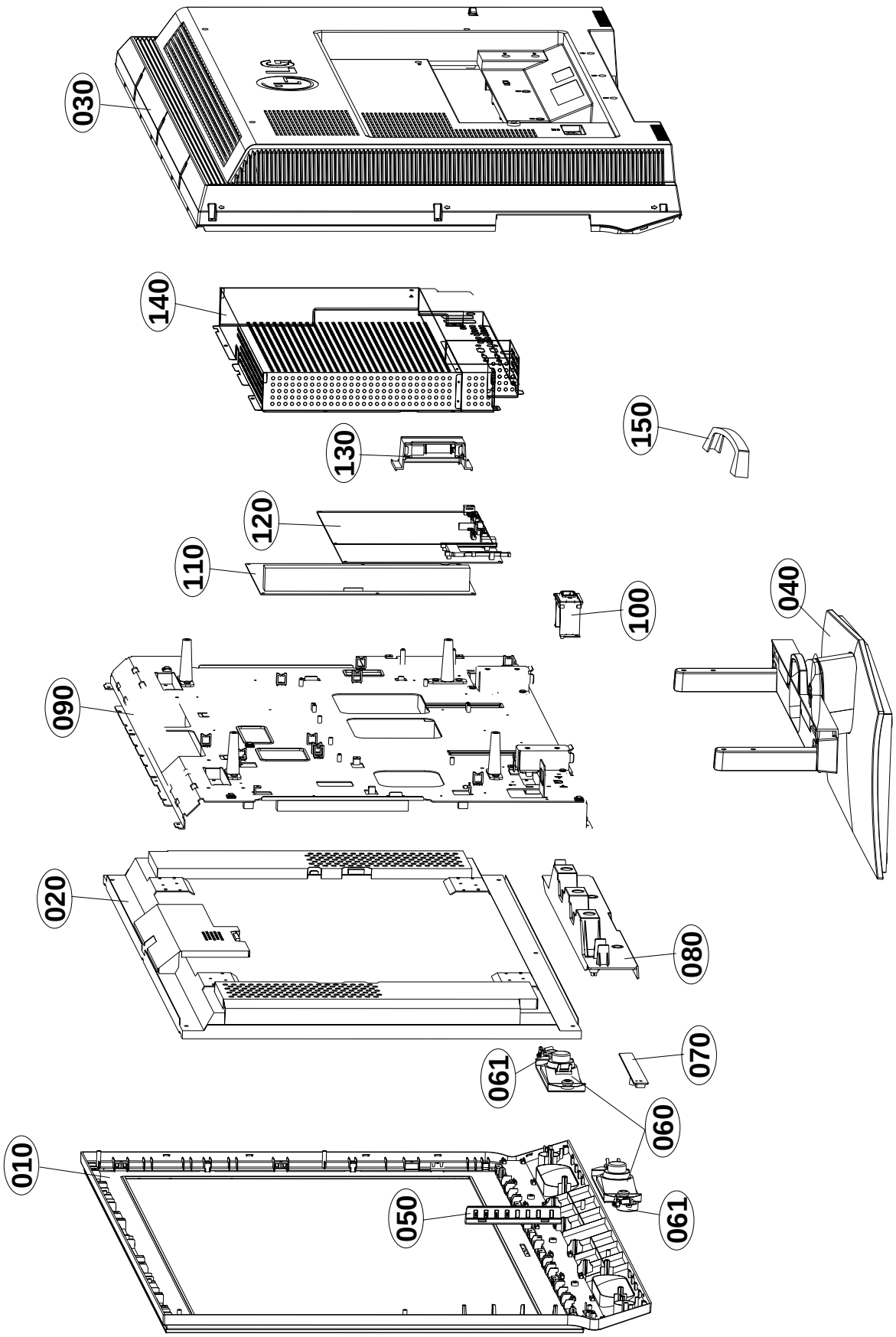
EXPLODED VIEW(37LC2D)



EXPLODED VIEW PARTS LIST(37LC2D)

No.	PART NO.		DESCRIPTION
010	⚠	30919E0046Y	Cover Assembly, 37LC2D-UD BRAND 30909E0027 LGE
020	⚠	6304FLP360A	LCD,Panel-TFT, LC370WX1-SL11 37INCH 1365X768 500CD COLOR 72% - LG PHILIPS LCD
		or EAJ32763501	LCD,Module-TFT, LC370WX1-SL15 WXGA 37.0INCH 1366X768 500CD COLOR 72% 16/9 800:1 A-TW Pol. P6 LG PHILIPS LCD
		or 6304FLP367A	LCD,Panel-TFT, LC370WX1-SL13 37INCH 1365X768 500CD COLOR 72% - LG PHILIPS LCD
030	⚠	3809900164U	Cover Assembly, 37LC2DA-UE LA63E 37" 37LC2DA-UE ZENITH(PHNATOM)
040	⚠	3043900032H	Base Assembly, STAND 37LC2D-UD LA51D 35509K0214 LGEMX PHANTOM
050		68719ST913A	PCB Assembly,Sub, SUB T.T LA51D 42LC2D-UD ALUSLLX - KEY
060		EAB30829201	Speaker,Woofer, g1560102 ND 15W 8OHM 82DB 100HZ 193 X 57 X 50 LUG MACOM
070		49509K0160B	Plate, FIX SIDE AV (For 37LC2)
080		68719ST914B	PCB Assembly,Sub, SUB T.T PA63E 42LC2DA-UE AUSLZAX IR TOTAL ASSY
090		49509K0222A	Plate, PRESS SBHG T2.0 SUPPORT STAND 37LC2
100		35509K0217A	Cover, MOLD HIPS 37LC2 STAND MID INNER
110		49509K0024H	Plate, PRESS SBHG T1.6 SUPPORTER SBHG-A PHANTOM for LGEMX
111		49509K0023F	Plate, PRESS SBHG 1.6 SUPPORTER SBHG-A PHANTOM for LGEMX
120		MGJ32111506	Plate, PRESS EGI 1.6 FRAME SBHG-A 37LC2DU-UD BCM chassis for C/SKD
130		68719ST904B	PCB Assembly,Sub, SUB T.T LA63E 37LC2D-UE AUSLLAX Side AV total Assy
140	⚠	6709900016D	SMPS,AC/DC, LGLP2637HEP 90VTO264V 215W 47TO63HZ UL/CSA/SEMKO YY / AT / HE YUYANG TELECOM CO.,LTD
150		AGF31622301	Package Assembly, MAIN 37LC2DU-UE LA63E Main Package assy[LPL]
160		MGJ32550710	Plate,Shield, PRESS EGI 0.8T SHIELD EGI 37LC2D-UE BCM CHASSIS(FOR C/SKD)
170		35509K0197A	Cover, MOLD HIPS 32LC2 CABLE MANAGEMENT

EXPLODED VIEW(42LC2D)



EXPLODED VIEW PARTS LIST(42LC2D)

No.	PART NO.		DESCRIPTION
010	⚠	30919E0047F	Cover Assembly, 42LC2D BRAND 30909E0028 AA
020	⚠	6304FLP363A	LCD,Panel-TFT, LC420W02-SLA1 42INCH 1365X768 500CD COLOR 72% - LG PHILIPS LCD
030	⚠	3809900165Z	Cover Assembly, 42LC2D-UE BCM 42" V0, ANALOG TYPE, LG, C/SKD
040	⚠	3043900034D	Base Assembly, 42LC2 42LC2 42LC2 C/SKD
050		68719ST913A	PCB Assembly,Sub, SUB T.T LA51D 42LC2D-UD ALUSLLX - KEY
060		EAB30829201	Speaker,Woofer, g1560102 ND 15W 8OHM 82DB 100HZ 193 X 57 X 50 LUG MACOM
061		EAB30825601	Speaker,Tweeter, D013d02k1400 ND 15W 8OHM 84DB 0HZ 50 X 39.6 X 12.4 LUG
070		68719ST914B	PCB Assembly,Sub, SUB T.T PA63E 42LC2DA-UE AUSLZAX IR TOTAL ASSY
080		35519K0030C	Cover Assembly, 42LC2 STAND 35509K0220A SUPPORT C/SKD
090		49519S0036X	Plate Assembly, ASSY 42LC2DA-UE ZENITH PHANTOM FOR LGEMX
100		31419SNJ81A	Chassis Assembly, SUB LA51D AC INLET ASSY
110	⚠	6709900017C	SMPS, YP4201-HDMI 90VTO264V 280W 47TO63HZ UL/CSA/TUV/SEMKO 42" LCD YUYANG TELECOM CO.,LTD
120		AGF31218501	Package Assembly, MAIN 42LC2DU-UE MAIN PACKAGE ASSY
130		68719STA37B	PCB Assembly,Sub, SUB T.T PA63E 42LC2DA-UE AUSLZAX SIDE AV TOTAL ASSY
140		MGJ33782104	Plate, PRESS EGI 0.8mm REAR SPC 42LC2D-UE, BCM, C/SKD
150		35509K0197A	Cover, MOLD HIPS 32LC2 CABLE MANAGEMENT

REPLACEMENT PARTS LIST

For Capacitor & Resistors, the charactors at 2nd and 3rd digit in the P/No. means as follows;

CC, CX, CK, CN, CH : Ceramic
CQ : Polyestor
CE : Electrolytic
CF : Fixed Film

RD : Carbon Film
RS : Metal Oxide Film
RN : Metal Film
RH : CHIP, Metal Glazed(Chip)
RR : Drawing

DATE: 2006. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
CAPACITOR				
		C1001	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C2003	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C2004	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C3020	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C3021	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C3034	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C3037	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C3056	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C3065	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C4012	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20%
		C4017	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4019	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4023	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C4024	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4025	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4030	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4032	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C4041	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C4047	EAE30840201	4SVPC330M 330uF 20% 4V 2.32
		C4055	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4058	EAE30840201	4SVPC330M 330uF 20% 4V 2.32
		C4060	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4063	EAE30840401	25SVPD10M 10uF 20% 25V 1.5A
		C4064	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4065	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4068	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4071	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C4073	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C4074	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C4080	EAE30840201	4SVPC330M 330uF 20% 4V 2.32
		C4082	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C4083	EAE30840301	10SVPC68M 68uF 20% 10V 1.97
		C4085	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20%
		C4087	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C4089	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C4104	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C4105	0CE336WD6D8	RC1A336M05005VR 33uF 20% 10
		C5001	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C5003	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C5020	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C5030	0CH8226F691	MVK5.0TP16VC22M 22uF 20% 16
		C5031	0CH8226F691	MVK5.0TP16VC22M 22uF 20% 16
		C5033	0CE476WH6DC	MVK8.0TP25VC47M 47uF 20% 25
		C5035	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5038	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5042	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5044	0CE227WF6DC	MVK8.0TP16VC220M 220uF 20%
		C5055	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C5057	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C5063	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%
		C5065	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5066	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C5070	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5071	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5072	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5074	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5075	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5077	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20%
		C5078	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20%
		C5079	0CH8106F691	MVK4.0TP16VC10M 10uF 20% 16
		C5080	0CE335WK6D8	MVK4.0TP50VC3.3M 3.3uF 20%
		C5104	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C5105	0CE105WK6DC	MVK4.0TP50VC1M 1uF 20% 50V
		C5106	0CE225WK6DC	MVK4.0TP50VC2.2M 2.2uF 20%

DATE: 2006. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		C6005	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%-AUO
		C6006	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16-LPL
		C6010	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C6021	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C6025	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C6032	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C6033	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7002	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C7003	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C7025	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C7037	0CE107WF6DC	MVK6.3TP16VC100M 100uF 20%
		C7044	0CE106WH6DC	MVK5.0TP25VC10M 10uF 20% 25
		C7045	0CE107WK6DC	MVK10TP50VC100M 100uF 20% 5
		C7046	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C7048	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7052	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C7054	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7055	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7056	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7063	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7065	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7084	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7091	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C7095	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7097	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7098	0CE106WFKDC	MVK4.0TP16VC10M 10uF 20% 16
		C7110	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C7157	0CE226WF6DC	MVK5.0TP16VC22M 22uF 20% 16
		C7158	0CE227WJ6DC	MVK10TP35VC220M 220uF 20% 3
		C7159	0CE227WJ6DC	MVK10TP35VC220M 220uF 20% 3
		C6001	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V-AUO
		C6002	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2-AUO
		C6003	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2-AUO
		C6004	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50-AUO
		C1008	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1009	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1010	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1011	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1025	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1037	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1038	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1050	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1062	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1063	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2001	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2008	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2014	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2027	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C2028	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C2029	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C2030	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C3007	0CC080CK11A	C1608C0G1H080DT 8pF 0.5PF 5
		C3008	0CC080CK11A	C1608C0G1H080DT 8pF 0.5PF 5
		C3012	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V
		C3013	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V
		C3030	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3033	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3040	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C3064	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V
		C3066	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.
		C4001	0CK334CF56A	C1608X7R1C334KT 330nF 10% 1
		C4002	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4003	0CK334CF56A	C1608X7R1C334KT 330nF 10% 1
		C4004	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C4005	0CK334CF56A	C1608X7R1C334KT 330nF 10% 1

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		C4006	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4007	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C4008	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C4010	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4011	0CC270CK41A	C1608C0G1H270JT 27pF 5% 50V
		C4014	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50
		C4015	0CC221CK41A	C1608C0G1H221JT 220pF 5% 50
		C4016	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C4018	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C4020	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4021	0CH2474F566	0805B474K160CT 470nF 10% 16
		C4022	0CH2474F566	0805B474K160CT 470nF 10% 16
		C4026	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4027	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4028	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4034	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C4046	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4049	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4050	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4051	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4052	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4053	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4054	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4057	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4066	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4072	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4077	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C4078	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C4086	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4091	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4095	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4098	0CN475FH67A	TMK325BJ475MN-T 4.7uF 20% 2
		C4100	0CK153CK51A	0603B153K500CT 15nF 10% 50V
		C4101	0CC561CK41A	C1608C0G1H561JT 560pF 5% 50
		C4102	0CK476FD67A	LMK325BJ476MM-T 47uF 20% 10
		C4103	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4106	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4107	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C4126	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4129	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4133	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4135	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4136	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4137	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5002	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C5004	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C5009	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5010	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5011	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5022	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5025	0CH2474F566	0805B474K160CT 470nF 10% 16
		C5037	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5040	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5052	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5053	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5054	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5058	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5059	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5064	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5068	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5073	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5102	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5103	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5107	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5108	0CH2474F566	0805B474K160CT 470nF 10% 16
		C5109	0CH2474F566	0805B474K160CT 470nF 10% 16
		C6007	0CK104BF56A	C1005X7R104KET 100nF 10% 16-LPL
		C6022	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6023	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C6024	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7001	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C7015	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7019	0CK224CF56A	0603B224K160CT 220nF 10% 16
		C7021	0CK225DK94A	CL21F225ZBFNNNE 2.2uF -20TO

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		C7022	0CK224CF56A	0603B224K160CT 220nF 10% 16
		C7031	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7032	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7033	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7035	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C7039	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7040	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7042	0CK224CF56A	0603B224K160CT 220nF 10% 16
		C7043	0CK224CF56A	0603B224K160CT 220nF 10% 16
		C7047	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C7073	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7074	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7075	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7076	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7077	0CK153CK56A	0603B153K500CT 15nF 10% 50V
		C7078	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7079	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C7080	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V
		C7096	0CH5220K416	0805N220J500LT 22pF 5% 50V
		C7099	0CH5220K416	0805N220J500LT 22pF 5% 50V
		C7100	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V
		C7108	0CC150CK41A	C1608C0G1H150JT 15pF 5% 50V
		C7109	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7141	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C7142	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7143	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7144	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C7150	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7153	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C1007	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1012	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C1016	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1017	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1018	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1019	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1020	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1021	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1022	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1024	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1027	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1028	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1029	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1030	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1032	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1033	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1034	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1036	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1039	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1040	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1041	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C1042	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1043	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1044	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1045	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1046	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1051	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1052	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1053	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C1054	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1055	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1056	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1057	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C1058	0CH2122K516	0805B122K500CT 1.2nF 10% 50
		C1059	0CH2122K516	0805B122K500CT 1.2nF 10% 50
		C1060	0CH2122K516	0805B122K500CT 1.2nF 10% 50
		C1061	0CH2122K516	0805B122K500CT 1.2nF 10% 50
		C1064	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C1065	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C2002	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2005	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C2006	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2007	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2009	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C2010	0CK104BF56A	C1005X7R104KET 100nF 10% 16

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		C2011	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C2012	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C2013	0CK473CH56A	C1608X7R1E473KT 47nF 10% 25
		C2015	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2016	0CK272CK46A	0603B272J500CT 2.7nF 10% 50
		C2017	0CK272CK46A	0603B272J500CT 2.7nF 10% 50
		C2018	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C2019	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C2020	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C2021	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C2022	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C2023	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C2024	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C2025	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C2026	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C2031	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C2032	0CK105CD56A	C1608X7R1A105KT 1uF 10% 10V
		C2033	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C2034	0CC471CK41A	C1608C0G1H471JT 470pF 5% 50
		C3005	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3014	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3015	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3016	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3017	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3018	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3019	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3022	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.
		C3023	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.
		C3024	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3025	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3026	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3027	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3028	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3029	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3031	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3032	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3035	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3036	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3038	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3039	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3041	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3042	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3043	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3044	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3045	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3046	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3047	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3048	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3049	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3050	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3051	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3052	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3053	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3054	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3055	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3057	0CK106DC67A	JMK212JB106MG-T 10uF 20% 6.
		C3058	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C3059	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3060	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3061	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3062	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C3063	0CK102BK56A	0402B102K500CT 1nF 10% 50V
		C3067	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C3068	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C4033	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4035	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4037	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4038	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4039	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4040	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4043	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4048	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4056	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4062	0CK104BF56A	C1005X7R104KET 100nF 10% 16

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		C4067	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4070	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4084	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4088	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4090	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4094	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4096	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4097	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4099	0CK224CF56A	0603B224K160CT 220nF 10% 16
		C4108	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C4109	0CK475CC94A	C1608Y5V0J475ZT 4.7uF -20TO
		C4113	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C4114	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4115	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4116	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4117	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4118	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4119	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4120	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4121	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4122	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4123	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4124	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4125	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4127	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4128	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4130	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4131	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C4132	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C4134	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5005	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5006	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5007	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5008	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5012	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5013	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5014	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5015	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5016	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C5019	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C5026	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5027	0CC101CK41A	C1608C0G1H101JT 100pF 5% 50
		C5028	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5029	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5032	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5034	0CK103BH56A	C1005X7R1E103KT- 10nF 10% 2
		C5036	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5039	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5041	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5045	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5046	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5047	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5048	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5049	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5050	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5051	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C5056	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5060	0CK222CK56A	0603B222K500CT 2.2nF 10% 50
		C5061	0CH2474F566	0805B474K160CT 470nF 10% 16
		C5062	0CH2474F566	0805B474K160CT 470nF 10% 16
		C5076	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6011	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6014	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6028	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6031	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6034	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C6035	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7007	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V
		C7020	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7023	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7024	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 5
		C7026	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7027	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7028	0CK104BF56A	C1005X7R104KET 100nF 10% 16

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		C7029	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7030	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7034	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7036	0CK103CK56A	0603B103K500CT 10nF 10% 50V
		C7038	0CC470CK41A	C1608C0G1H470JT 47pF 5% 50V
		C7041	0CK225DK94A	CL21F225ZBFNNNE 2.2uF -20TO
		C7049	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7050	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7051	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7053	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7057	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7058	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7059	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7060	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7061	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7062	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7064	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7066	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7067	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7068	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7069	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7070	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7071	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7072	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7081	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7082	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7083	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7085	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7086	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7087	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7088	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C7089	0CC220CK41A	C1608C0G1H220JT 22pF 5% 50V
		C7090	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7092	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7151	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7152	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7154	0CK474DK56A	UMK212BJ474KG-T 470nF 10% 5
		C7155	0CK104CK56A	0603B104K500CT 100nF 10% 50
		C7156	0CK105DH56A	C2012X7R105KFT 1uF 10% 25V
		C7160	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		C7161	0CK104BF56A	C1005X7R104KET 100nF 10% 16
		DIODEs		
		D5002	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D7001	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D4003	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D4005	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D5001	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D7002	0DD184009AA	KDS184 KDS184 TP KEC - 85V
		D4007	0DR340009AA	MBRS340 525MV 40V 4A 0SEC 0
		D6001	0DR340009AA	MBRS340 525MV 40V 4A 0SEC 0-AUO
		D4008	0DS226009AA	KDS226 1.2V 85V 300MA 2A 4N
		D4001	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D4002	0DRSE00038A	SDC15 1.3V 14.3VTO16.4V 21.
		D5015	0DZRM00178A	UDZS5.1B 5.1V 4.98TO5.2V 80
		ZD7001	0DZRM00218A	UDZS8.2B 8.2V 8.02TO8.36V 3
		ZD7002	0DZRM00218A	UDZS8.2B 8.2V 8.02TO8.36V 3
		ZD7003	0DZRM00218A	UDZS8.2B 8.2V 8.02TO8.36V 3
		ZD7004	0DZRM00218A	UDZS8.2B 8.2V 8.02TO8.36V 3
		ZD7005	0DZRM00218A	UDZS8.2B 8.2V 8.02TO8.36V 3
		ZD1001	0DZDI00078A	BZT52C3V3S-F 3.3V 3.1TO3.5V
		IC		
		IC7004	0IPRP00696A	MST3361M-LF-110 3.3V_2.5V 0
		IC7001	0ICB533100A	CS5331A-KSR 4.75TO5.25V 48K
		IC3001	EAN30267601	TPS2052BDRG4 2.7TO5.5 3MSEC
		IC4002	0IPRP00538A	FSA1156P6X-NL 1.65TO5.5V 40
		IC5003	0ISO206900A	CXA2069Q 8.5TO9.5V - - 1300
		IC5001	EAN30744301	MM1732XVBE 4.5TO9.5 50NSEC
		IC5002	EAN30744401	MM1731XVBE 4.0TO9.5 50NSEC
		IC7017	0IPRP00700A	TPA3100D2PHPR 10TO26V . . 2

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		IC4007	0ISTLPH026A	74LVC14APW 1.2TO3.6V 0.01mA
		IC5004	0IPRPCI016A	CS4344-CZZR 4.75TO5.25V 3TO
		IC1001	0IPRP00702A	BCM3550KPB5G 1.2TO3.3 4A 54
		IC4017	EAN31513601	SC4519STRT 2.6V to 16V 0.8V
		IC6001	0IPMG00063A	MP1593DN-LF-Z 4.75TO28V 1.2-AUO
		IC2002	0IMMRHY057E	HY5DU561622ETP-D43 256MBIT
		IC2003	0IMMRHY057E	HY5DU561622ETP-D43 256MBIT
		IC4014	0IMCRAL006A	AT24C16AN-10SU-2.7 16KBIT 2
		IC7005	0IMMRCS012B	CAT24WC08W-T(MST3000) 8KBIT
		IC7010	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 25
		IC7012	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 25
		IC7013	0IMMRAL014D	AT24C02BN-10SU-1.8 2KBIT 25
		IC4012	0IMCRAL021A	AT24C512W-10SU-2.7 512KBIT
		IC4006	0IPRPFA015B	"FMS6400CS1X,LF 4.75VTO5.25V"
		IC4003	0IPMGA0010A	AZ1117H-3.3 4.75TO10V 3.3V
		IC4008	0IPMGS1006B	SC1566I5M25TRT 2.2V~5.5V 1.
		IC4011	0IMCRRH001A	BA033FP-E2 4.3TO25V 3.3V 1W
		IC4015	0IMCR02227A	MTV416GMF 3TO3.6V 24mA 25MH
		IC2001	EAN30399001	S29GL128N90TFIR 128MBIT 8BI
		IC7002	0ISTL00029A	MC33078DR2G +-5TO+-18V 2mV
		IC7015	0IPRP00623A	"CM2021-00TR 1.0VTO5.5V,0.0V"
		IC7016	0IPRP00623A	"CM2021-00TR 1.0VTO5.5V,0.0V"
		IC7008	0IPH740800H	74F08D 4.5TO5.5V 12.9mA AND
		IC4001	0IPRP00009A	ICL3232CBNZ 3VTO5.5V - SSOP
		IC6004	0IMCRTH002A	THC63LVD103 3.0TO3.6 1W TQF
		IC4010	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC4004	0IKE702900G	KIA7029AF -0.3TO15V 2.9V 50
		IC4013	0IMCRSH001A	PQ05DZ1U 6TO16V 5V 8W D2PAK
		IC4016	0IMCRFA010A	KA7809R 11.5TO24V 9V 150W D
		COIL & CORE & INDUCTOR		
		L3002	0LC0233002A	FI-B2012-332KJT 3.3UH 10% -
		L4002	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L7008	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L7020	0LCML00020B	MLI-201209-6R8K 6.8UH 10% -
		L4022	6140TBZ047B	RLF7030T-3R3M4R1 3.3UH 20%
		L7029	6140VR0008A	SLF12575T-330M3R2 33UH 20%
		L7030	6140VR0008A	SLF12575T-330M3R2 33UH 20%
		L7031	6140VR0008A	SLF12575T-330M3R2 33UH 20%
		L7032	6140VR0008A	SLF12575T-330M3R2 33UH 20%
		L6001	6140VR0008B	SLF12575T-150M4R7 15UH 20%-AUO
		AR7001	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR7002	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR7003	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR7004	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR7005	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		AR7006	6210TCE002B	HB-4M3216-121JT 120OHM 3.2X
		L3005	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L3006	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L4003	6210TCE001E	HB-1M2012-800JT 80OHM 2X1.2
		L4004	6210TCE001E	HB-1M2012-800JT 80OHM 2X1.2
		L4010	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4011	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4012	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4013	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4014	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4015	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4023	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4025	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L5001	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L5002	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L5003	6210TCE001A	HB-1S2012-080JT 8OHM 2X1.25
		L7019	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L7021	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7026	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7037	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L7038	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L7039	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L7041	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L7042	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L7043	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L7044	6210TCE001S	HU-1M2012-121 120OHM 2X1.25
		L7045	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X

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		L7046	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L7047	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L2001	6210TCE0013	HB-1M1608-121JT 120OHM 1.6X
		L3001	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L3003	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L3004	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L3007	6210VC0006A	FBMH3216 HM501NT 500OHM 3.2
		L4005	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4008	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4009	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4016	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L4017	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L4021	6210TCE001E	HB-1M2012-800JT 80OHM 2X1.2
		L6004	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7022	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7023	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7024	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7025	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7027	0LCML00003B	MLB-201209-0120P-N2 120OHM
		L7040	6210TCE001G	HH-1M3216-501JT 500OHM 3.2X
		L4007	6200J000123	NFE31PT222Z1E9L LPF(EMI) 20
		TRANSISTOR		
		Q6002	0TF492509AA	SI4925DY P-CHANNEL -30V +-2-LPL
		Q4001	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q4003	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q4010	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5010	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5011	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5012	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5013	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5014	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5015	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5016	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5017	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q6001	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50-LPL
		Q7003	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q7005	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q7009	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q7011	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q7012	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q7013	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		Q1001	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q1002	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5004	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q5005	0TR150400BA	2SA1504S(ASY) PNP -5V -50V
		Q5006	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5007	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q5009	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q7002	0TR102009AJ	KRC102S NPN 30V 0V 50V 100M
		RESISTORs		
		AR3021	0RJ1001C687	RCA86TRJ1K00 1KOHM 5% 1/16W
		AR2009	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2012	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2014	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2017	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6001	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6002	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6003	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6004	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6005	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6006	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR6007	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		R1008	0RJ0102D677	MCR03EZPJ100 10OHM 5% 1/10W
		R1015	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R1016	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R1017	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R1018	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W
		R1019	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W
		R1021	0RJ0562D477	MCR03EZPF560 56OHM 1% 1/10W
		R1030	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8

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		R1032	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1044	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1047	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1054	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R1056	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R1057	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R1061	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R1062	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1064	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1065	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1066	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1067	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1068	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R1073	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1074	0RJ5600D677	MCR03EZPJ561 560OHM 5% 1/10
		R1083	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1084	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1085	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10
		R1086	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10
		R1087	0RJ0271D677	MCR03EZPJ2R7 2.7OHM 5% 1/10
		R1129	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R1157	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/1
		R1158	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/1
		R1159	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/1
		R1160	0RJ3601D677	MCR03EZPJ362 3.6KOHM 5% 1/1
		R1161	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R1162	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R2002	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2015	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2022	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2023	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2024	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2025	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2026	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2027	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2032	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2044	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2045	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2046	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2047	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2106	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3009	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3011	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3012	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/1
		R3013	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3014	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3015	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/1
		R3016	0RJ3000D677	MCR03EZPJ301 300OHM 5% 1/10
		R3017	0RJ3000D677	MCR03EZPJ301 300OHM 5% 1/10
		R3020	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3023	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3025	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3026	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3030	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R3033	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3035	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3038	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3042	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3044	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3047	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3048	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3049	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3057	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3059	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3061	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3062	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3065	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3066	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3069	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3076	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3077	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3079	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3080	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3081	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3082	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3083	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3084	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3085	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3086	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3087	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3088	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3089	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3090	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3091	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3092	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3093	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3094	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3095	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3096	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3097	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3098	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3099	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3100	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3101	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3102	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3103	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3104	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3109	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R3111	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3112	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R3113	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R3121	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3122	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3123	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3124	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3125	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3126	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4001	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4002	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4003	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4004	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4005	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4006	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4009	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4010	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4011	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4015	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10
		R4016	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R4018	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4019	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R4022	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4023	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4026	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4028	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R4029	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R4048	0RJ4300D677	MCR03EZPJ431 430OHM 5% 1/10
		R4049	0RJ3650D477	MCR03EZPF3650 365OHM 1% 1/1
		R4051	0RJ3301D677	MCR03EZPJ332 3.3KOHM 5% 1/1
		R4057	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4058	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4059	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4068	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4069	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4071	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R4074	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4076	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4077	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R4082	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4083	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4084	0RJ4701D677	MCR03EZPJ472 4.7KOHM 5% 1/1
		R4085	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R4088	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4089	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4090	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R4091	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R4092	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4097	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R4098	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4099	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4100	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4101	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R4103	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4104	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16-LPL
		R4105	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4107	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R4108	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4109	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R4114	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4117	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4118	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4119	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4122	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4124	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4125	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4142	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R4143	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4144	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R4145	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R4146	0RJ3302D677	MCR03EZPJ333 33KOHM 5% 1/10
		R4147	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R4148	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4156	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R4158	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R4159	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R4161	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4162	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4163	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4164	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R4165	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R4166	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R4186	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W-**AUO**
		R4186	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W-**LPL**
		R5015	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R5020	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R5029	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5030	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10
		R5031	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5034	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R5035	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R5038	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10
		R5042	0RJ7500D677	MCR03EZPJ751 750OHM 5% 1/10
		R5046	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R5048	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5049	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5050	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5052	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R5053	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R5054	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5055	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R5057	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5058	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R5059	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5062	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5063	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5064	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R5065	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R5066	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R5068	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5073	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W
		R5074	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5075	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5077	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R5078	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R5079	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R5080	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5081	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5084	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5085	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5086	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W
		R5087	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5088	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R5089	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5090	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R5091	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5093	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5094	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5095	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W
		R5096	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R5097	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R5099	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5100	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5101	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5103	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5105	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5106	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R5107	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5108	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5109	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5110	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5111	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5112	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R5113	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R5114	0RJ2201D677	MCR03EZPJ222 2.2KOHM 5% 1/1
		R5120	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R5121	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R5122	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5123	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5124	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R5125	0RJ5601D677	MCR03EZPJ562 5.6KOHM 5% 1/1
		R5126	0RJ0752D677	MCR03EZPJ750 75OHM 5% 1/10W
		R5127	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R5129	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5130	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5131	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5132	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6016	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W-LPL
		R6017	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16-LPL
		R6032	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6033	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6034	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6035	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6037	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6038	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6042	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6057	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6058	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R6059	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7006	0RJ1001D677	MCR03EZPJ102 1KOHM 5% 1/10W
		R7009	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7014	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7015	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7036	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7037	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7038	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7039	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7040	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7041	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7042	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7046	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7047	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7048	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7049	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7050	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7051	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7054	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7055	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7056	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R7057	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7058	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R7059	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7060	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R7061	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R7062	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7067	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7068	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R7071	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R7072	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R7073	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7080	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7083	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R7084	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R7085	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7086	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7088	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7089	0RJ1502D677	MCR03EZPJ153 15KOHM 5% 1/10
		R7090	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R7100	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7105	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7114	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7117	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R7118	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R7119	0RJ0822C678	MCR01MZPJ820 82OHM 5% 1/16W
		R7122	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7126	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R7127	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R7130	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7132	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7155	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7186	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7187	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7188	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7189	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7190	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7191	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7192	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7193	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7194	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7195	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7196	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7197	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7198	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7199	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7200	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R7201	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7202	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7203	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7208	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7209	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7210	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7211	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7212	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R7213	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R7214	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R7215	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7216	0RJ1000D677	MCR03EZPJ101 100OHM 5% 1/10
		R7217	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R7218	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R7219	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7220	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7221	0RJ0222D677	MCR03EZPJ220 22OHM 5% 1/10W
		R7222	0RJ0182D677	MCR03EZPJ180 18OHM 5% 1/10W
		R7225	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7226	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7237	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R7243	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7245	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7246	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		AR2001	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2002	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2003	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2004	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2005	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2006	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2007	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2008	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2010	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2011	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2013	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		AR2015	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/

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		AR2016	0RJ0222C692	MNR04 M0APJ 220 22OHM 5% 1/
		R1006	0RJ2000D477	MCR03EZPF201 200OHM 1% 1/10
		R1014	0RJ0511D677	MCR03EZPJ5R1 5.1OHM 5% 1/10
		R1020	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1034	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1035	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1036	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1037	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1038	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1039	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1040	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1041	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1042	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1045	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1046	0RJ4990D477	MCR03EZPF4990 499OHM 1% 1/1
		R1048	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1049	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1050	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1051	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1058	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1059	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R1060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1063	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1079	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1080	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1081	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1088	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R1131	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R1132	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W
		R1133	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1134	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1135	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1136	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W
		R1137	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W
		R1139	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1140	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R1141	0RJ0392D677	MCR03EZPJ390 39OHM 5% 1/10W
		R1142	0RH1504D622	MCR10EZHJ155 1.5MOHM 5% 1/8
		R1144	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R1145	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R2003	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R2012	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2013	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2016	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2017	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2028	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R2033	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R2048	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2049	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2050	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2051	0RJ4991D477	MCR03EZPF4991 4.99KOHM 1% 1
		R2102	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2103	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2104	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2105	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2107	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2108	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2109	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R2110	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3001	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3003	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3005	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3006	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3018	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3019	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3027	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3028	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3029	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3031	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3040	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3041	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3043	0RJ2701C678	MCR01MZPJ272 2.7KOHM 5% 1/1
		R3050	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3051	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W

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*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R3052	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3060	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3063	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3064	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3067	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3068	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3072	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3073	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3074	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3075	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3114	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3115	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3116	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3127	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R3128	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R3130	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R3131	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4030	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4031	0RJ3300D677	MCR03EZPJ331 330OHM 5% 1/10
		R4032	0RJ6800D677	MCR03EZPJ681 680OHM 5% 1/10
		R4033	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4039	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4040	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4041	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4044	0RJ0752C678	MCR01MZPJ750 75OHM 5% 1/16W
		R4045	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4046	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4047	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4050	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4053	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4054	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4055	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4061	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R4062	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10-LPL
		R4063	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W-AUO
		R4065	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R4066	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4067	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R4070	0RJ0000D677	MCR03EZPJ000 0OHM 5% 1/10W
		R4073	0RJ2200D677	MCR03EZPJ221 220OHM 5% 1/10
		R4075	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4079	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4080	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4086	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4087	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4093	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4094	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4102	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4106	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4111	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4113	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4123	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4126	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4129	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4134	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4135	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R4137	0RJ6802D677	MCR03EZPJ683 68KOHM 5% 1/10
		R4140	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R4152	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4153	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R4155	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R4174	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W
		R4184	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W
		R4185	0RJ1001D477	MCR03EZPF102 1KOHM 1% 1/10W
		R5001	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R5002	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5003	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5004	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5005	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R5006	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5007	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5008	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5023	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5027	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1

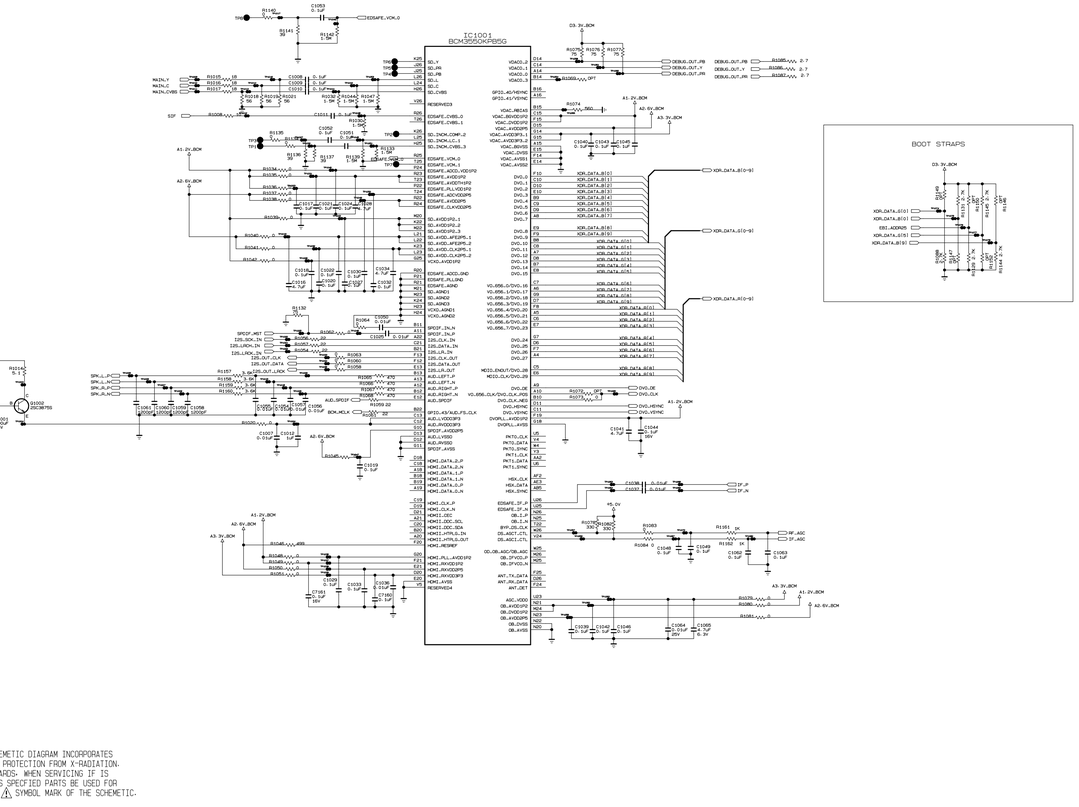
DATE: 2006. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R5036	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R5037	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R5039	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/1
		R5040	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5044	0RJ1501D477	MCR03EZPF152 1.5KOHM 1% 1/1
		R5045	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R5060	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5061	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5067	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5069	0RJ1003D677	MCR03EZPJ104 100KOHM 5% 1/1
		R5070	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5071	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R5072	0RJ4703D677	MCR03EZPJ474 470KOHM 5% 1/1
		R5076	0RJ0682D677	MCR03EZPJ680 68OHM 5% 1/10W
		R5082	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5083	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R5115	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R5116	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R5117	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R5118	0RJ4700D677	MCR03EZPJ471 470OHM 5% 1/10
		R5128	0RJ2701D677	MCR03EZPJ272 2.7KOHM 5% 1/1
		R6001	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1-AUO
		R6002	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10-AUO
		R6003	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-AUO
		R6004	0RJ2202D677	MCR03EZPJ223 22KOHM 5% 1/10-AUO
		R6005	0RJ1202D677	MCR03EZPJ123 12KOHM 5% 1/10-AUO
		R6006	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6007	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6008	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6009	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6010	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6011	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6012	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6013	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6014	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6015	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6018	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-LPL
		R6019	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-LPL
		R6020	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W-LPL
		R6021	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16-LPL
		R6022	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-LPL
		R6048	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R6063	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R6089	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-LPL
		R6090	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W-AUO
		R7004	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10
		R7005	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R7007	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R7008	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R7010	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7011	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7012	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7013	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7016	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R7018	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7019	0RJ4701C678	MCR01MZPJ472 4.7KOHM 5% 1/1
		R7021	0RJ6801D677	MCR03EZPJ682 6.8KOHM 5% 1/1
		R7022	0RJ2700D677	MCR03EZPJ271 270OHM 5% 1/10
		R7029	0RJ1500D677	MCR03EZPJ151 150OHM 5% 1/10
		R7030	0RJ1002C678	MCR01MZPJ103 10KOHM 5% 1/16
		R7035	0RJ0222C678	MCR01MZPJ220 22OHM 5% 1/16W
		R7043	0RJ3900D677	MCR03EZPJ391 390OHM 5% 1/10
		R7044	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7045	0RJ0332C678	MCR01MZPJ330 33OHM 5% 1/16W
		R7052	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7053	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7063	0RJ1001C678	MCR01MZPJ102 1KOHM 5% 1/16W
		R7204	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7205	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7206	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7207	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7223	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R7224	0RJ4702D677	MCR03EZPJ473 47KOHM 5% 1/10
		R7233	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10

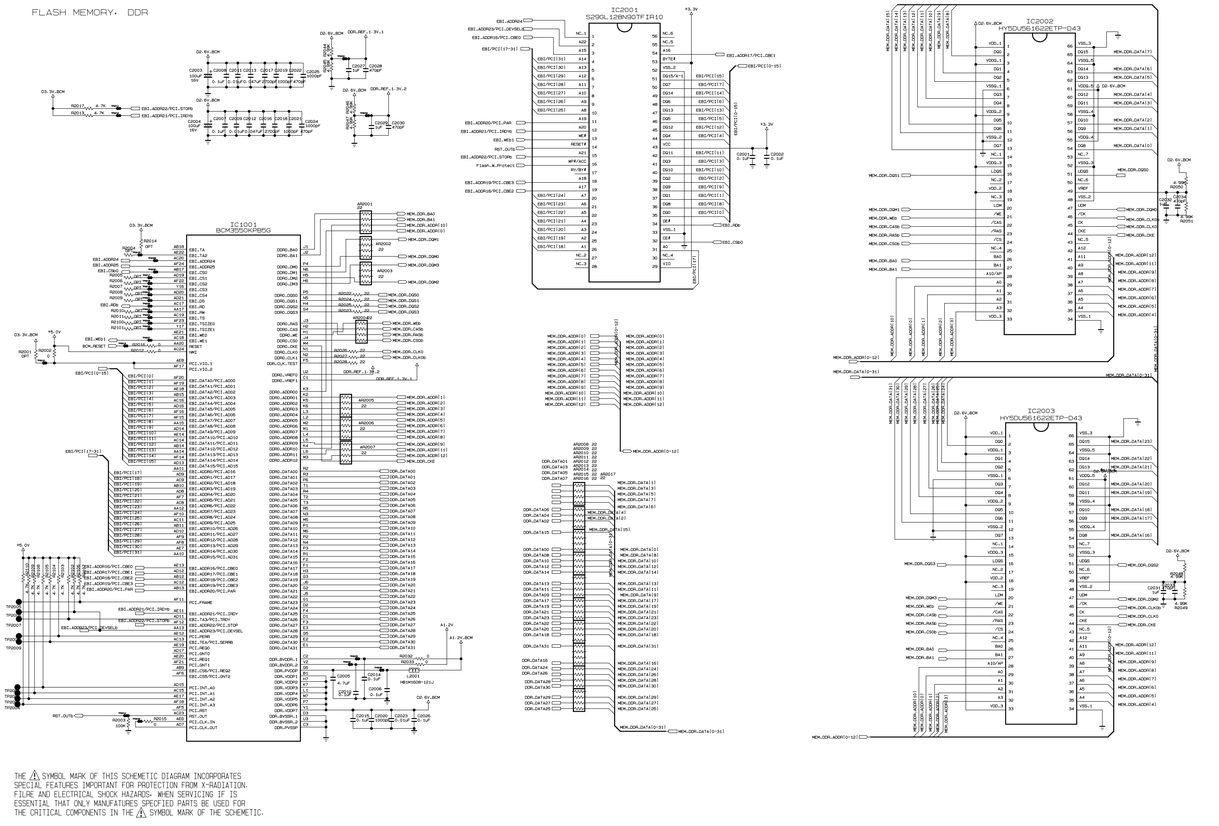
DATE: 2006. 09. 06.

*S	*AL	LOC. NO.	PART NO.	DESCRIPTION / SPECIFICATION
		R7234	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7238	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R7239	0RJ1000C678	MCR01MZPJ101 100OHM 5% 1/16
		R7242	0RJ1002D677	MCR03EZPJ103 10KOHM 5% 1/10
		R7247	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		R7249	0RJ0000C678	MCR01MZPJ000 0OHM 5% 1/16W
		OTHERs		
		X4001	6202TST001E	SX-1 24MHZ 30PPM 24MHZ 30PP
		X7001	6202TST001A	SX-1 14.31818MHZ 30PPM 14.3
		D4006	0DL233309AC	SAM2333 RED/Y-GREEN 2.7V 2.
		SW4001	EBF32593901	TMUE312GAB 1C1P 12VDC 0.5A
		CONTROL BOARD		
		SW101	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW102	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW103	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW104	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW105	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW106	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW107	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		SW108	140-313A	THVV501BBC 1C1P 12VDC 0.05A
		R101	0RH1201D622	MCR10EZHJ122 1.2KOHM 5% 1/8
		R102	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R103	0RH2002D622	MCR10EZHJ203 20KOHM 5% 1/8W
		R104	0RH7501D622	MCR10EZHJ752 7.5KOHM 5% 1/8
		R105	0RH3301D622	MCR10EZHJ332 3.3KOHM 5% 1/8
		R106	0RH1201D622	MCR10EZHJ122 1.2KOHM 5% 1/8
		R107	0RH2002D622	MCR10EZHJ203 20KOHM 5% 1/8W
		R108	0RH7501D622	MCR10EZHJ752 7.5KOHM 5% 1/8
		PREAMP+LED BOARD		
		LED1	0DL200000CA	SAM5670(DL-2LRG) ROUND 4.8M
		C101	0CH4471K416	C2012C0G1H471JT 470pF 5% 50
		C102	0CH5101K416	C2012C0G1H101JT 100pF 5% 50
		C103	0CE476WF6DC	MVK6.3TP16VC47M 47uF 20% 16
		C104	0CH4471K416	C2012C0G1H471JT 470pF 5% 50
		C105	0CH4471K416	C2012C0G1H471JT 470pF 5% 50
		L101	0RH1000D622	MCR10EZHJ101 100OHM 5% 1/8W
		Q101	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		Q102	0TR387500AA	2SC3875S(ALY) NPN 5V 60V 50
		R101	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R102	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R103	0LCML00003B	MLB-201209-0120P-N2 120OHM
		R104	0RH2000D622	MCR10EZHJ201 200OHM 5% 1/8W
		R105	0RH2000D622	MCR10EZHJ201 200OHM 5% 1/8W
		TU4001	EBL32758001	TDVS-H703P NTSC/ATSC 54MHZT
		X3001	6212AA2600A	"54MHz 3OT 54MHZ 30PPM 10pF,"
		SIDE A/V BOARD		
		R101	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R102	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R103	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R104	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R105	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R106	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2
		R107	0RH0000D622	MCR10EZHJ000 0OHM 5% 1/8W 2

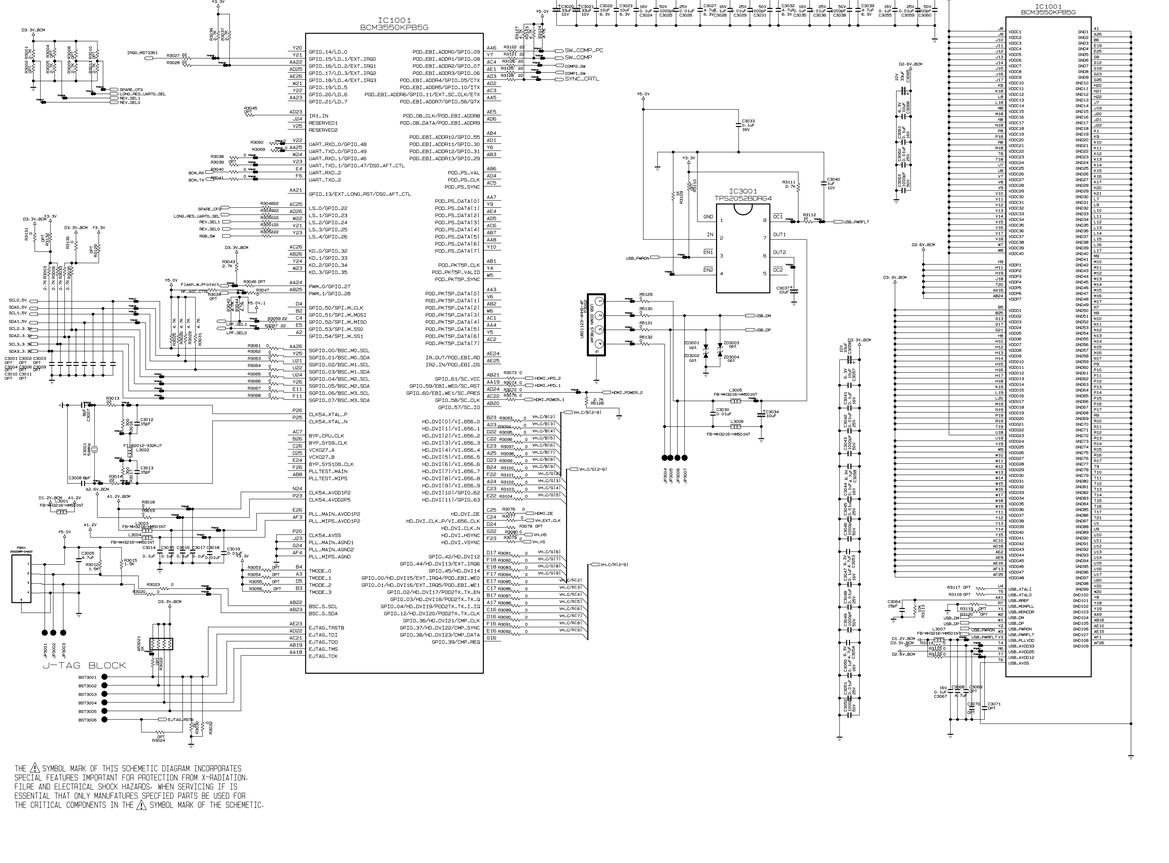
ANALOG INPUT



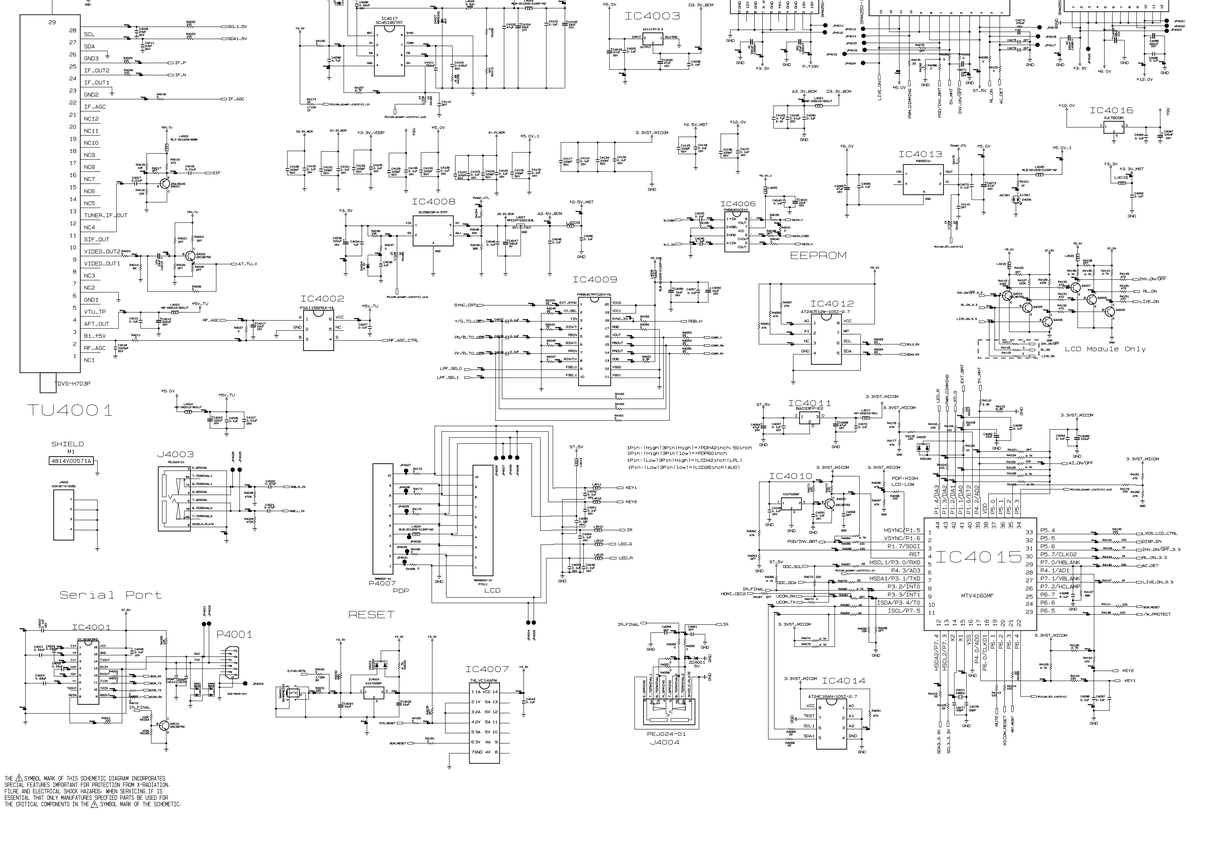
FLASH MEMORY, DDR



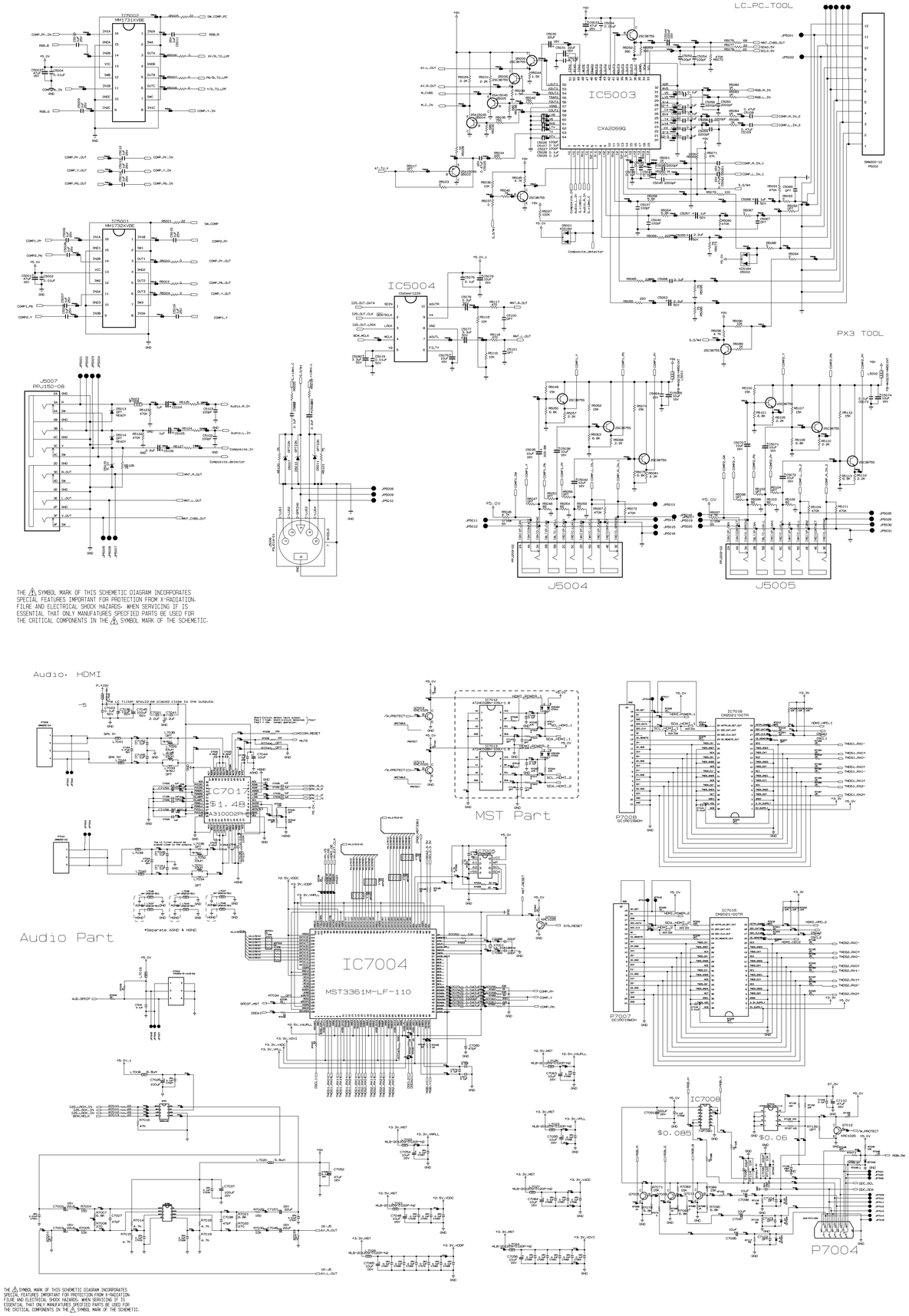
POWER, GPIO



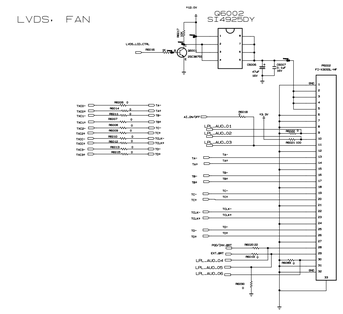
TUNER, CONNECTOR, MICOM



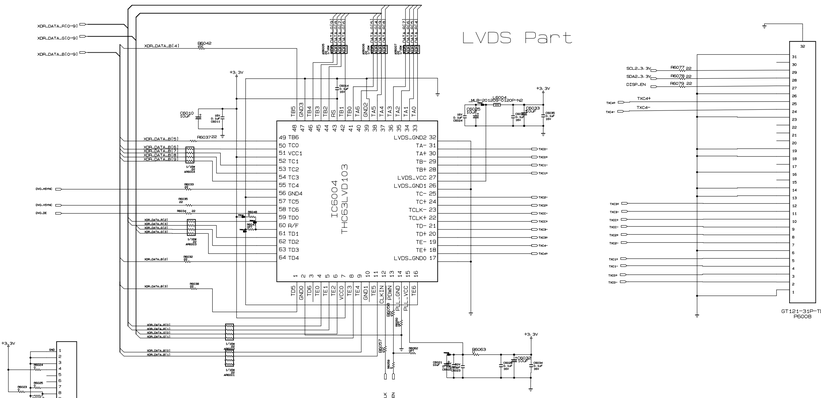
AV Input



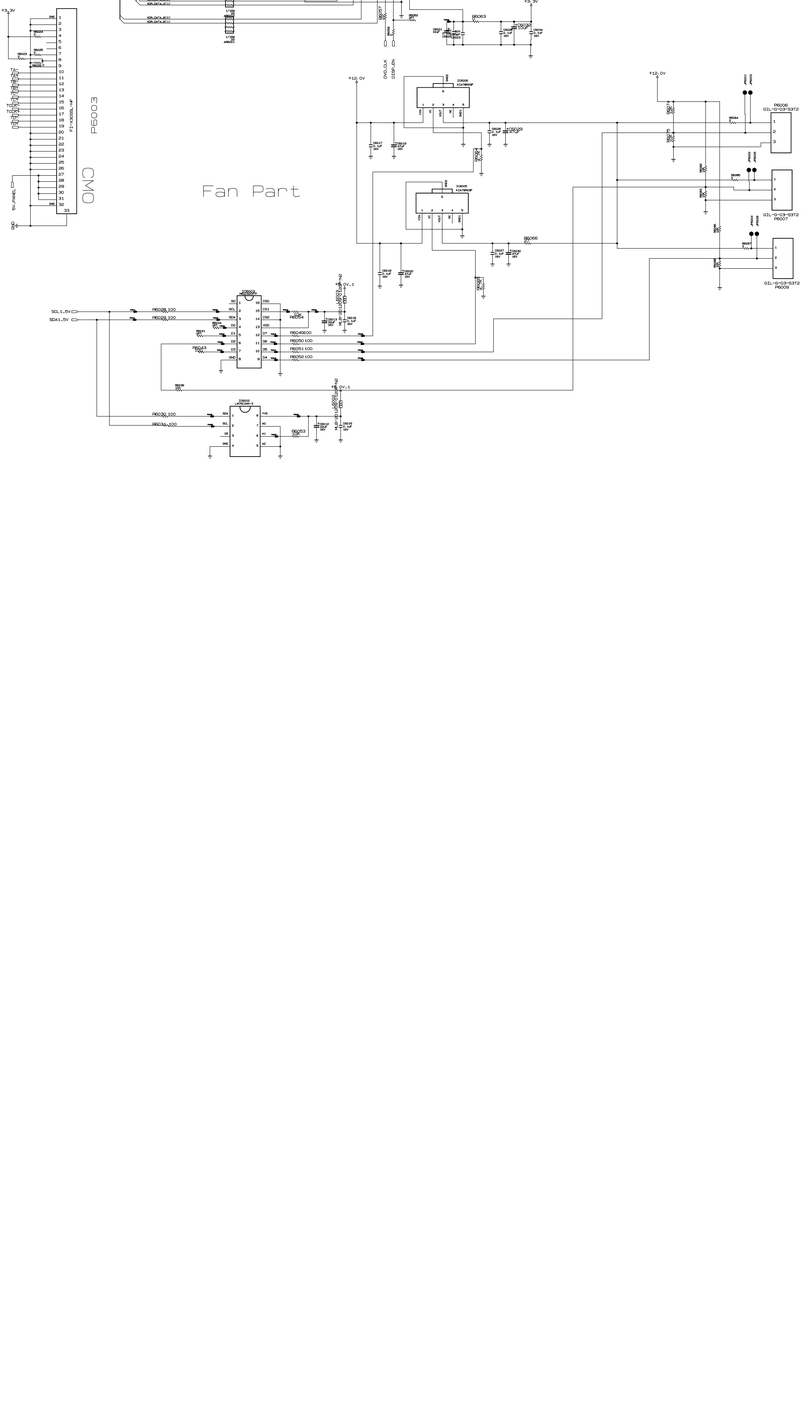
LVDS, FAN



LVDS Part



Fan Part



THE ⚠ SYMBOL MARK OF THIS SCHEMETIC DIAGRAM INCORPORATES SPECIAL FEATURES IMPORTANT FOR PROTECTION FROM X-RADIATION. FILNE AND ELECTRICAL SHOCK HAZARDS. WHEN SERVICING IF IS ESSENTIAL THAT ONLY MANUFATURES SPECIFIED PARTS BE USED FOR THE CRITICAL COMPONENTS IN THE ⚠ SYMBOL MARK OF THE SCHEMETIC.

Audio. HDMI

P/NO : MFL30105549

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